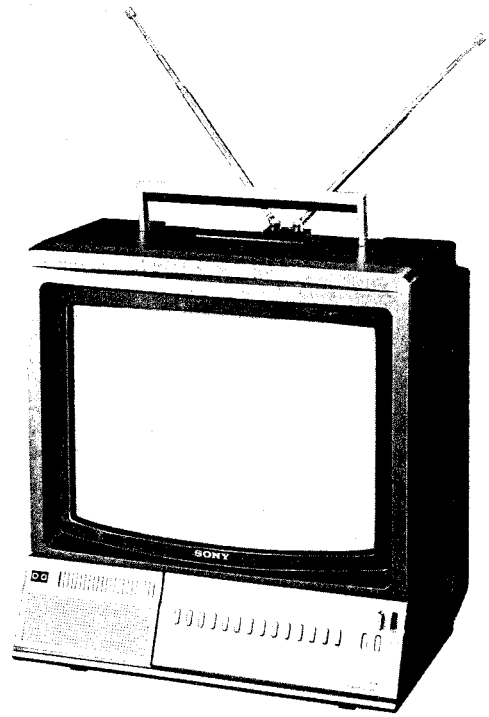
KV-1514

US Model

Chassis No SCC-207C-A



TRINITRON® COLOR TV

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SPECIFICATIONS

Television System:	American TV standards
Color System:	NTSC
Picture Tube:	37.6cm, 15" (screen measured diagonally) 90° deflection TRINITRON system
Semiconductors:	36 transistors, 61 diodes, 1 FET, and 11 ICs
Antennas:	VHF 75 ohm unbalanced (telescopic dipole*) UHF 300 ohm balanced (loop antenna*) *Note: Supplied with accessories
Channel Coverage:	VHF channels: 2-13 UHF channels: 14-83 (a total of up to 14 preselected channels)
Intermediate Frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz

SONY®

SERVICE MANUAL

4/14

Sound System: 4.5 MHz intercarrier
Output power: 1.5W (at 10% harmonic distortion)
Speaker: 8 x 12cm ($3^1/_8$ x 4¾ inches) 8 ohm

Video System: R.G.B. cathode drive

Automatic Controls: ABL (automatic brightness limiter)
ACA (automatic color attenuator)
ACC (automatic color control)
ACK (automatic color killer)
ADG (automatic degaussing)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
APC (automatic phase control)
AVR (automatic voltage regulator)

Anode Voltage: No adjustment HV
23 kV at zero beam current

Power Requirements: 120 V ac, 60Hz

Power Consumption: 100 W ac (max.)

Dimensions: 392(w) x 429(h) x 454(d) mm
15½(w) x $16^7/_8$ (h) x $17^7/_8$ (d) inches

Net Weight: 16.5 kg (36 lb 6 oz)

Accessories Supplied: Earphone (ME-20B)
VHF dipole antenna (AN-16)
UHF loop antenna (AN-15)
Antenna Connector (EAC-31)
Channel number segments
Instruction manual

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

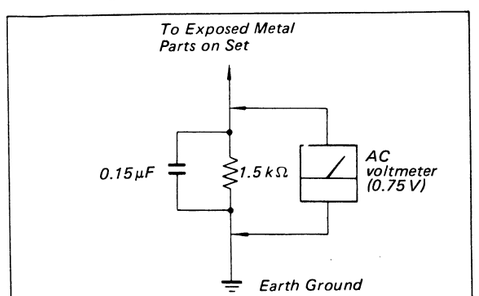


Fig. A. Using an AC voltmeter to check AC leakage.

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

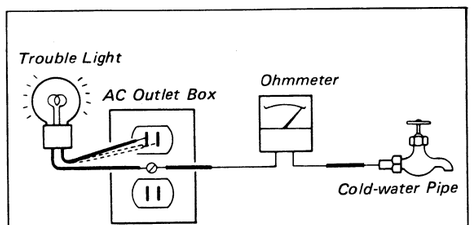
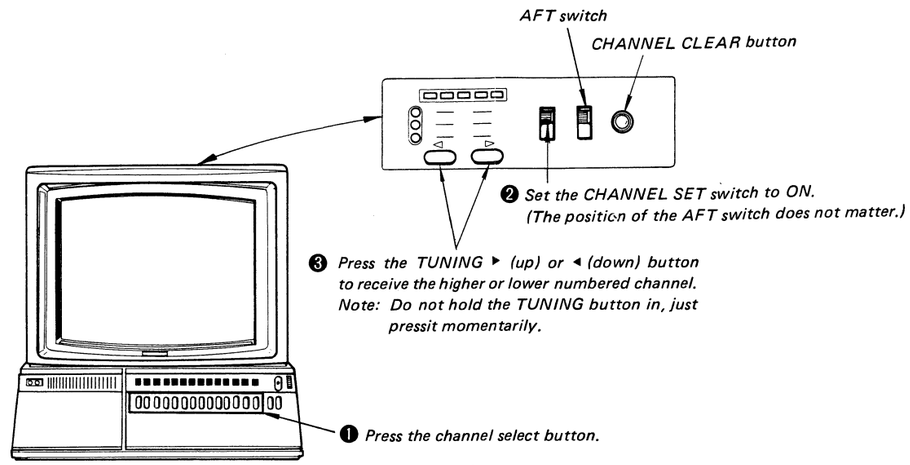


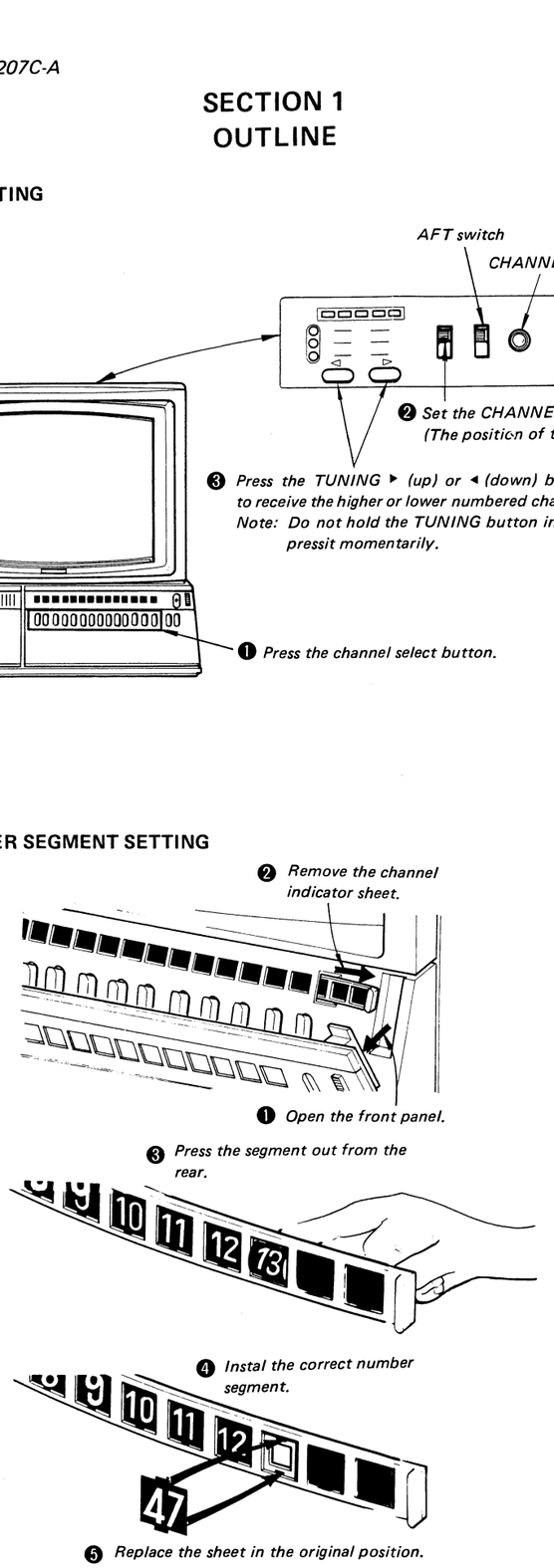
Fig. B. Checking for earth ground.

SECTION 1 OUTLINE

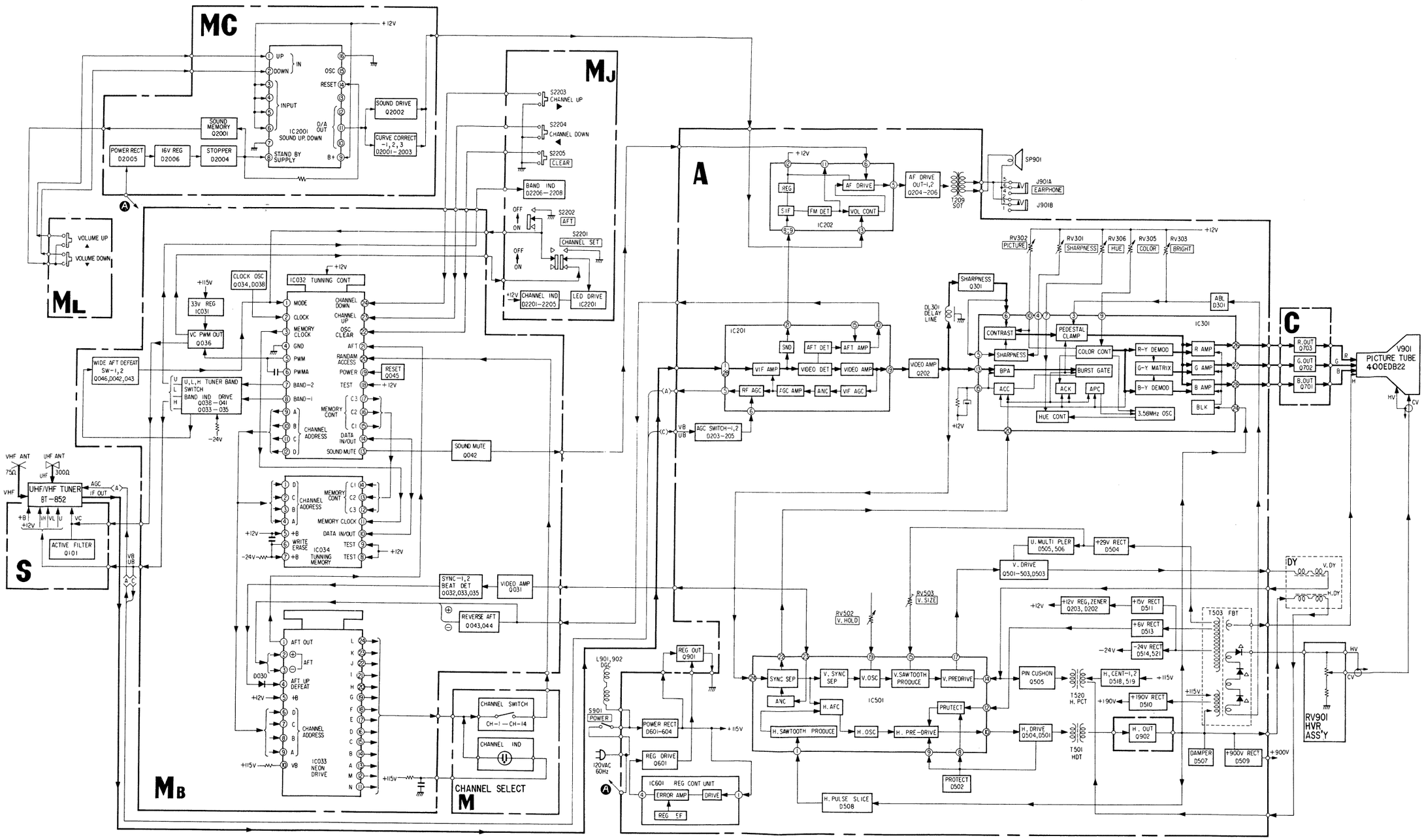
1-1. CHANNEL PRESETTING


AFT switch
CHANNEL CLEAR button
❷ Set the CHANNEL SET switch to ON.
(The position of the AFT switch does not matter.)
❸ Press the TUNING ▶ (up) or ◀ (down) button to receive the higher or lower numbered channel.
Note: Do not hold the TUNING button in, just pressit momentarily.
❶ Press the channel select button.

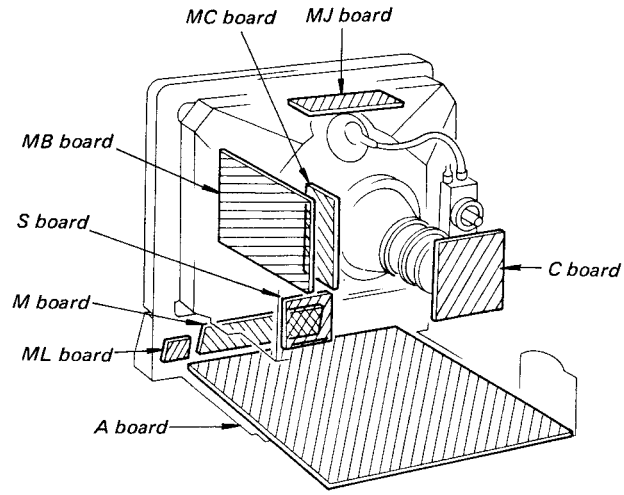
1-2. CHANNEL NUMBER SEGMENT SETTING


❷ Remove the channel indicator sheet.
❶ Open the front panel.
❸ Press the segment out from the rear.
9 10 11 12 13
❹ Instal the correct number segment.
9 10 11 12
47
❺ Replace the sheet in the original position.

1-3. BLOCK DIAGRAM

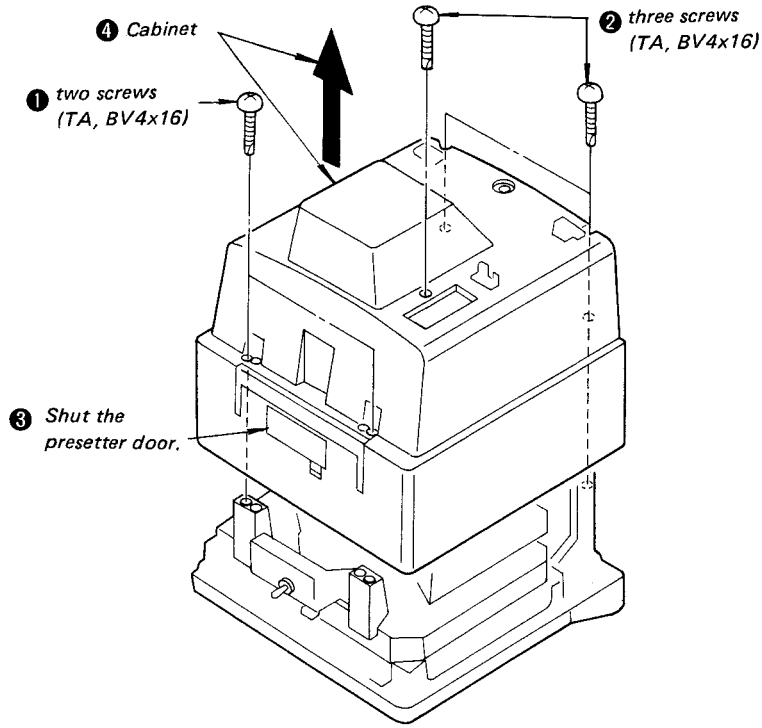


CIRCUIT BOARDS LOCATION

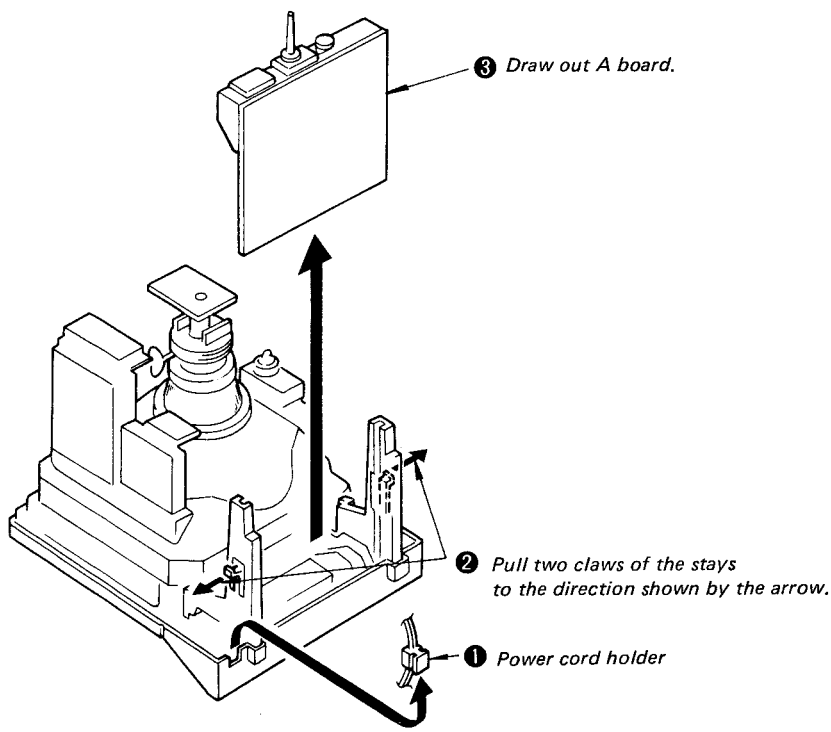


SECTION 2
DISASSEMBLY

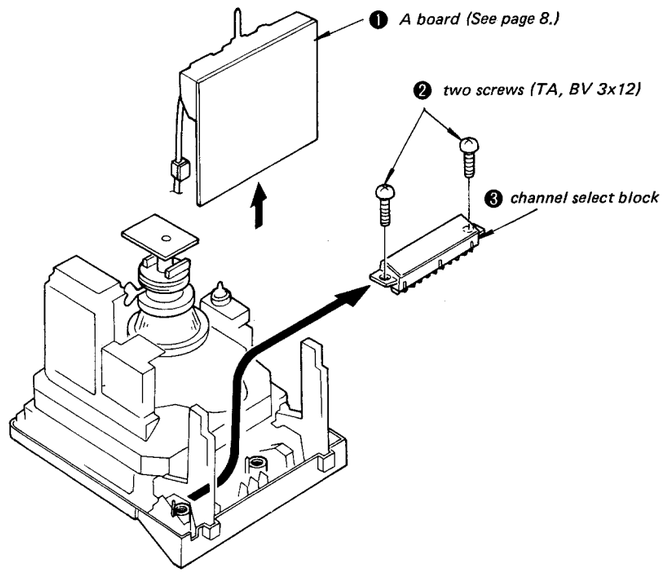
2-1. CABINET REMOVAL



2-2. A BOARD REMOVAL

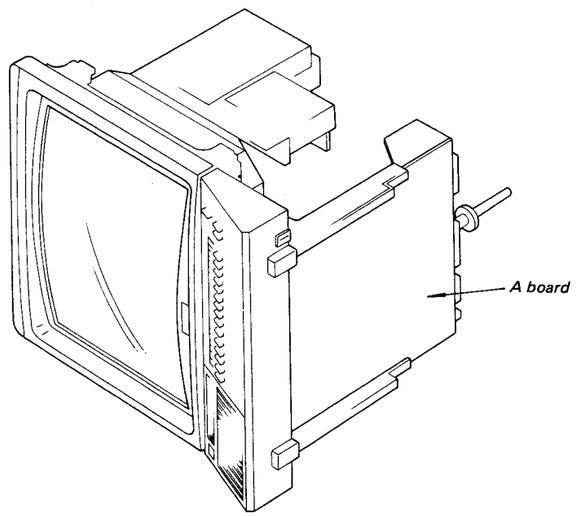


2-3. CHANNEL SELECT BLOCK REMOVAL

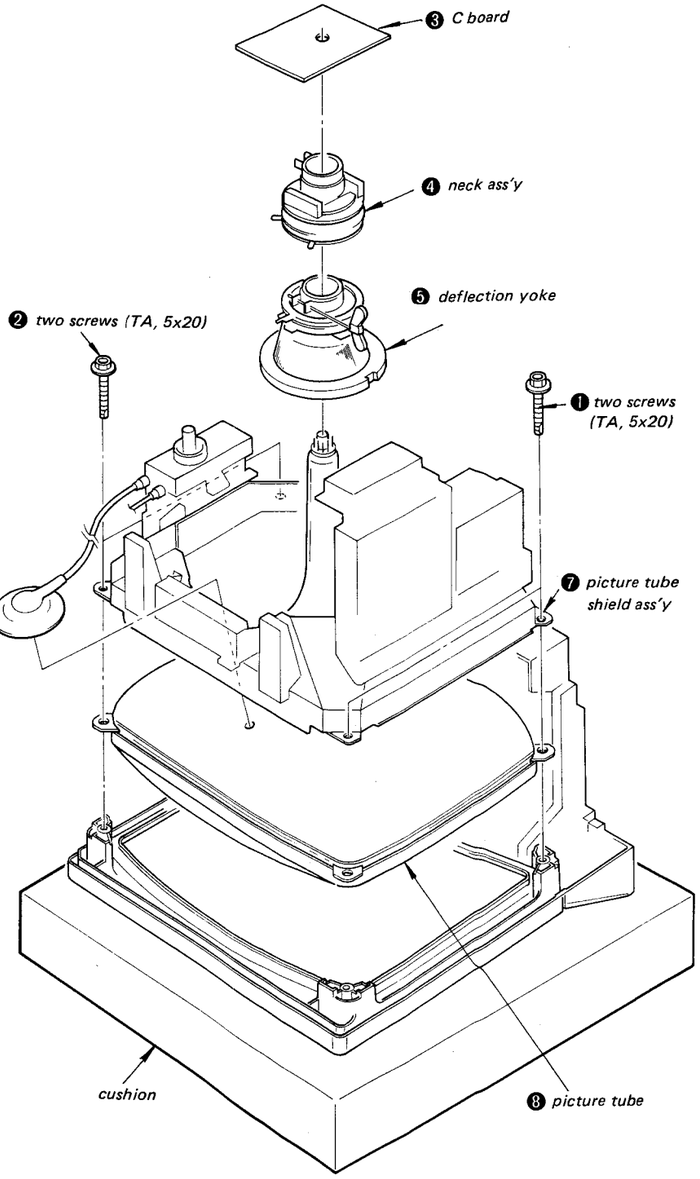


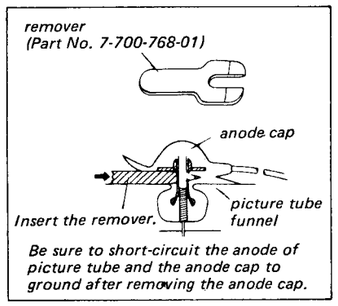
2-4. CHECKING A BOARD UP

Position the set as shown below.



2-5. PICTURE TUBE REMOVAL




remover
(Part No. 7-700-768-01)
anode cap
Insert the remover.
picture tube funnel
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

SECTION 3
SETUP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control . . . . .maximum (fully clockwise)
BRIGHT control . . . . . .maximum (fully clockwise)
AFT switch . . . . . .ON

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Position neck ass'y as shown in Fig. 3-2.
5. Disconnect leads Ⓑ and Ⓖ on the C board.
6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform red screen.
8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
   To get a uniform green screen,
   connect lead Ⓖ on the C board and disconnect leads Ⓡ and Ⓑ .
   To get a uniform blue screen,
   connect lead Ⓑ on the C board and disconnect leads Ⓡ and Ⓖ .
   After these checks, connect the leads Ⓡ , Ⓖ and Ⓑ .
9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a–d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
11. Confirm that beam landing is correct when the receiver is faced in all directions.

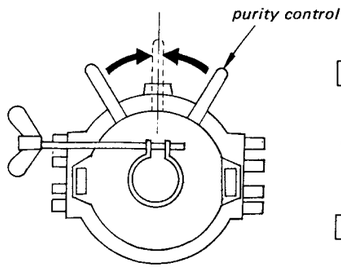


Fig. 3-1.

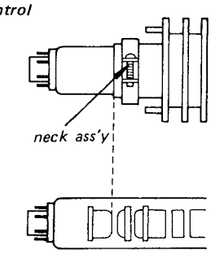


Fig. 3-2.

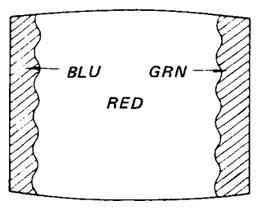


Fig. 3-3.

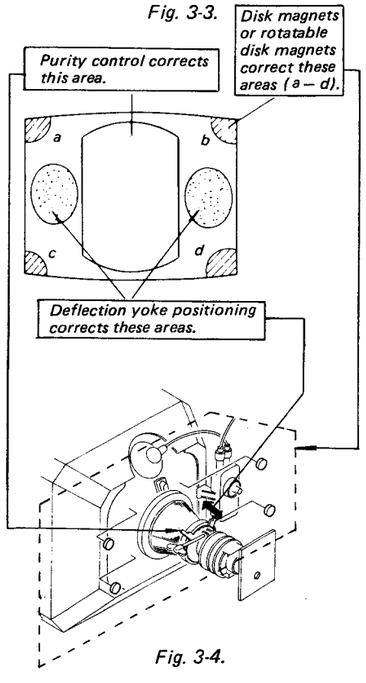
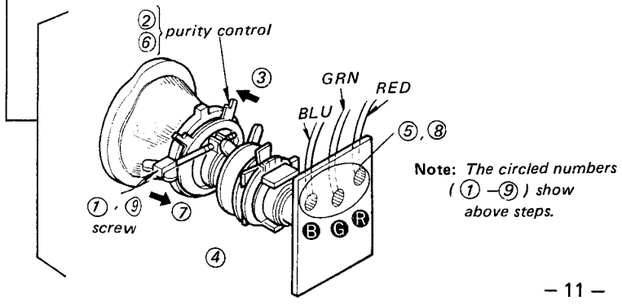


Fig. 3-4.



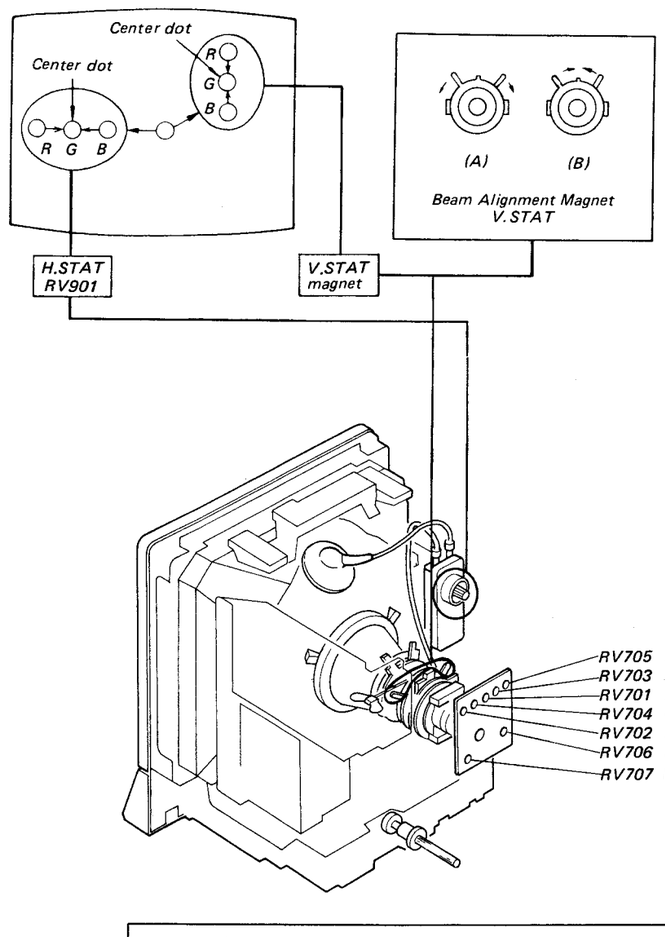
Note: *The circled numbers (① –⑨) show above steps.*

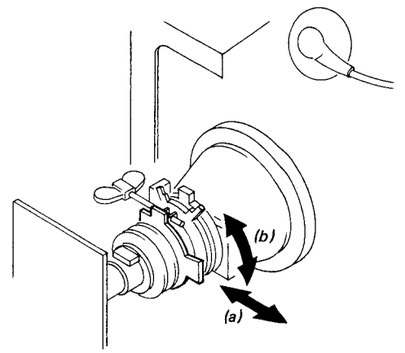
3-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H.SIZE and V. SIZE adjustments.
- Set BRIGHT control to fully counterclockwise.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence





If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

3-3. WHITE BALANCE

Feed in the cross-hatch pattern.

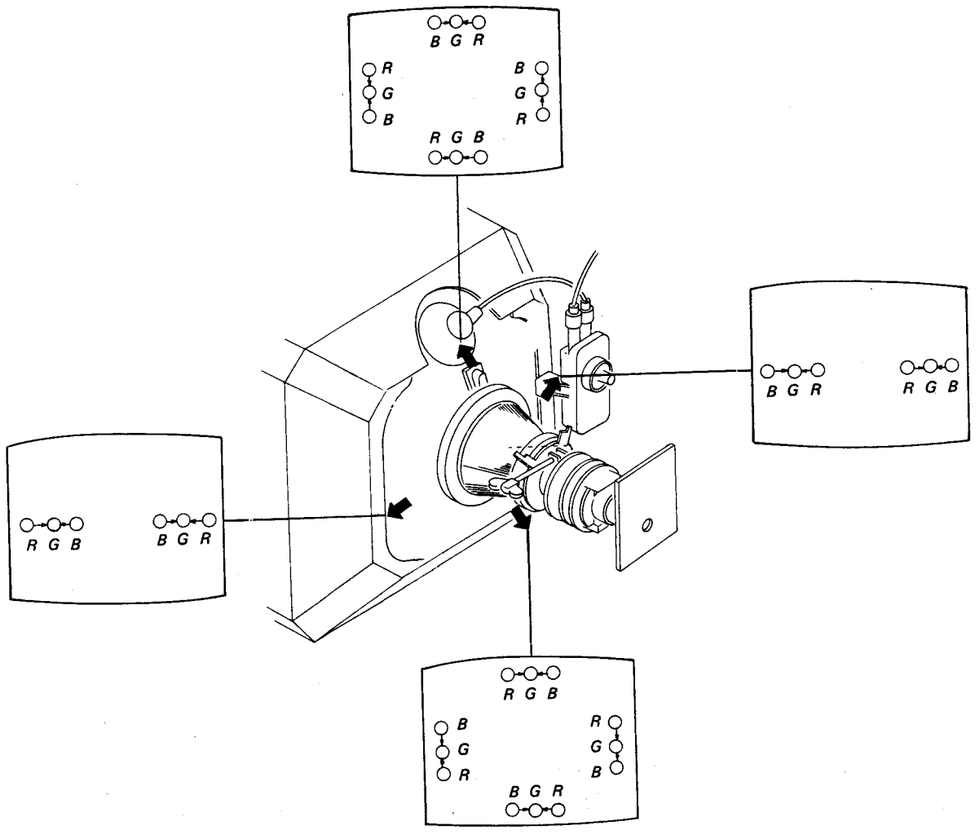
1. Turn PICTURE and BRIGHT controls fully counterclockwise.
2. Turn RV702 (B.DRIVE) and RV704 (G. DRIVE) fully clockwise.
3. Set RV701 (B.BKG), RV703 (G.BKG), and RV705 (R.BKG) to mechanical center.
4. Turn RV706 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV706. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn PICTURE and BRIGHT controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



SECTION 4
CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Digital multimeter
3. Color-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer
6. Regulated-dc power supply
7. Frequency counter

(2) INPUT SIGNAL

When making these adjustments, supply a color-bar or an off-air signal.

(3) CONTROL SETTING

Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control, BRIGHTNESS control, COLOR control } Set for best picture
V.HOLD control . . . . . .Set for stable picture
AFT switch . . . . . .ON

(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
FOCUS	C	14
CLOCK ADJ	MB	15
R597 adjustment	A	16, 17, 18
COLOR SYNC		
H. FREQ		
PIN AMP		
SUB CONTRAST		
ACC		
SIF		
SUB BRIGHT		
RF AGC		
CHECK AFTER IC601 REPLACED		

4-1. C BOARD ADJUSTMENT

FOCUS

Adjust RV707 for best Focus.

SECTION 4
CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Digital multimeter
3. Color-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer
6. Regulated-dc power supply
7. Frequency counter

(2) INPUT SIGNAL

When making these adjustments, supply a color-bar or an off-air signal.

(3) CONTROL SETTING

Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control
BRIGHTNESS control } Set for best picture
COLOR control
V.HOLD control . . . . . .Set for stable picture
AFT switch . . . . . .ON

(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

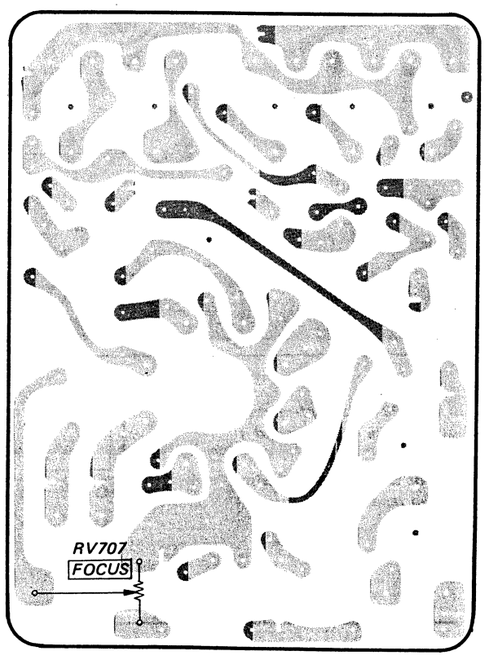
(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
FOCUS	C	14
CLOCK ADJ	MB	15
R597 adjustment	A	16, 17, 18
COLOR SYNC		
H. FREQ		
PIN AMP		
SUB CONTRAST		
ACC		
SIF		
SUB BRIGHT		
RF AGC		
CHECK AFTER IC601 REPLACED		

4-1. C BOARD ADJUSTMENT

FOCUS

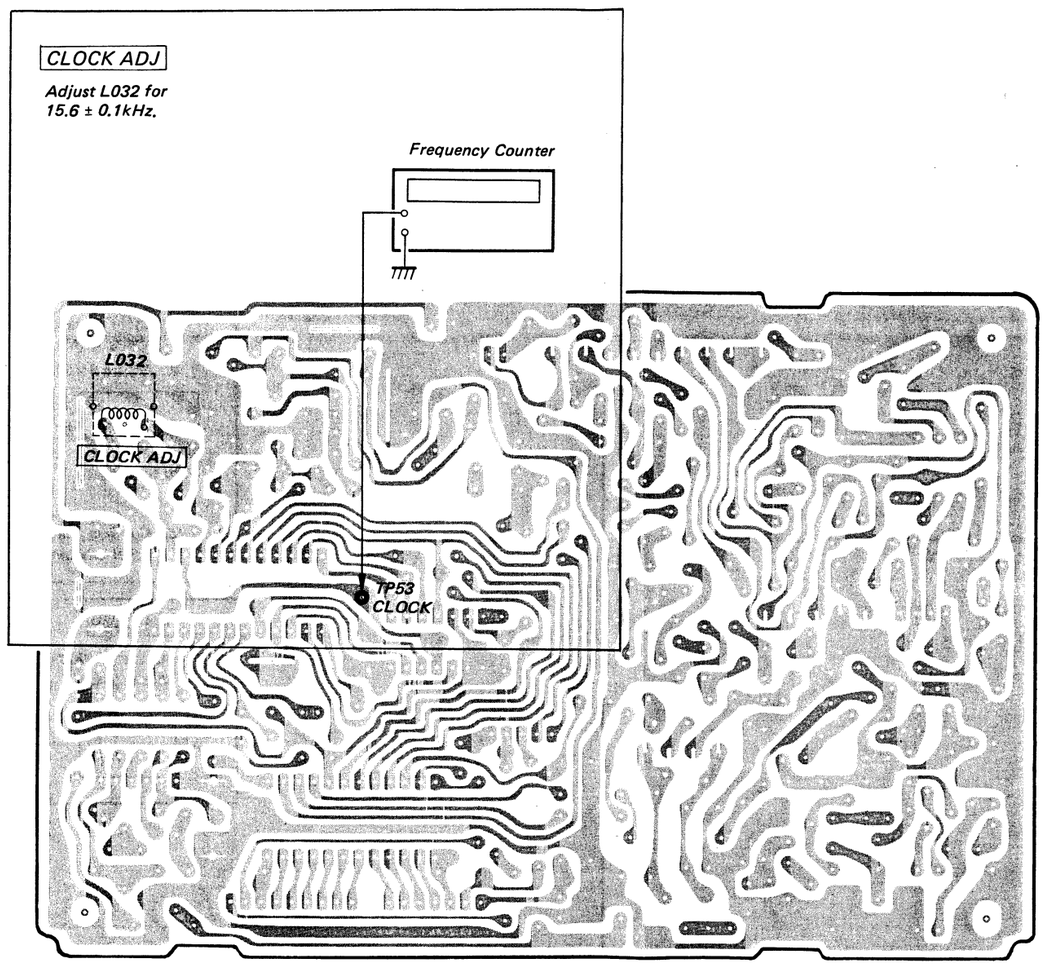
Adjust RV707 for best Focus.



4-2. MB BOARD ADJUSTMENT

CLOCK ADJ

Adjust L032 for 15.6 ± 0.1kHz.



4-3. A BOARD ADJUSTMENTS

COLOR SYNC

1. Feed in a color-bar signal from the color-bar/ pattern generator.
2. Set the switch and controls as shown below.
   AUTO switch ..... ON
   COLOR control } ..... mechanical
   HUE control } center
   PICTURE control ..... fully clockwise
3. Connect a 27kΩ resistor between the pins 1 and 18 of IC301.
4. Connect a 10kΩ resistor between the cathode of D301 and pin 1 of IC301.
5. Short-circuit between pins 16 and 17 of IC301 with a jumper.
6. Adjust CV301 to obtain the stable the color picture.
7. Disconnect the 27kΩ and 10kΩ resistors and the jumper.

H. FREQ

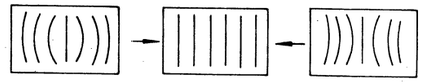
1. Tune in a strong off-air signal.
2. Adjust PICTURE, BRIGHT and V.HOLD controls for the suitable and stable picture.
3. Short circuit between the pins 24 and 15 of IC501 with a jumper during this adjustment.
4. Adjust RV501 for the stable picture as shown.

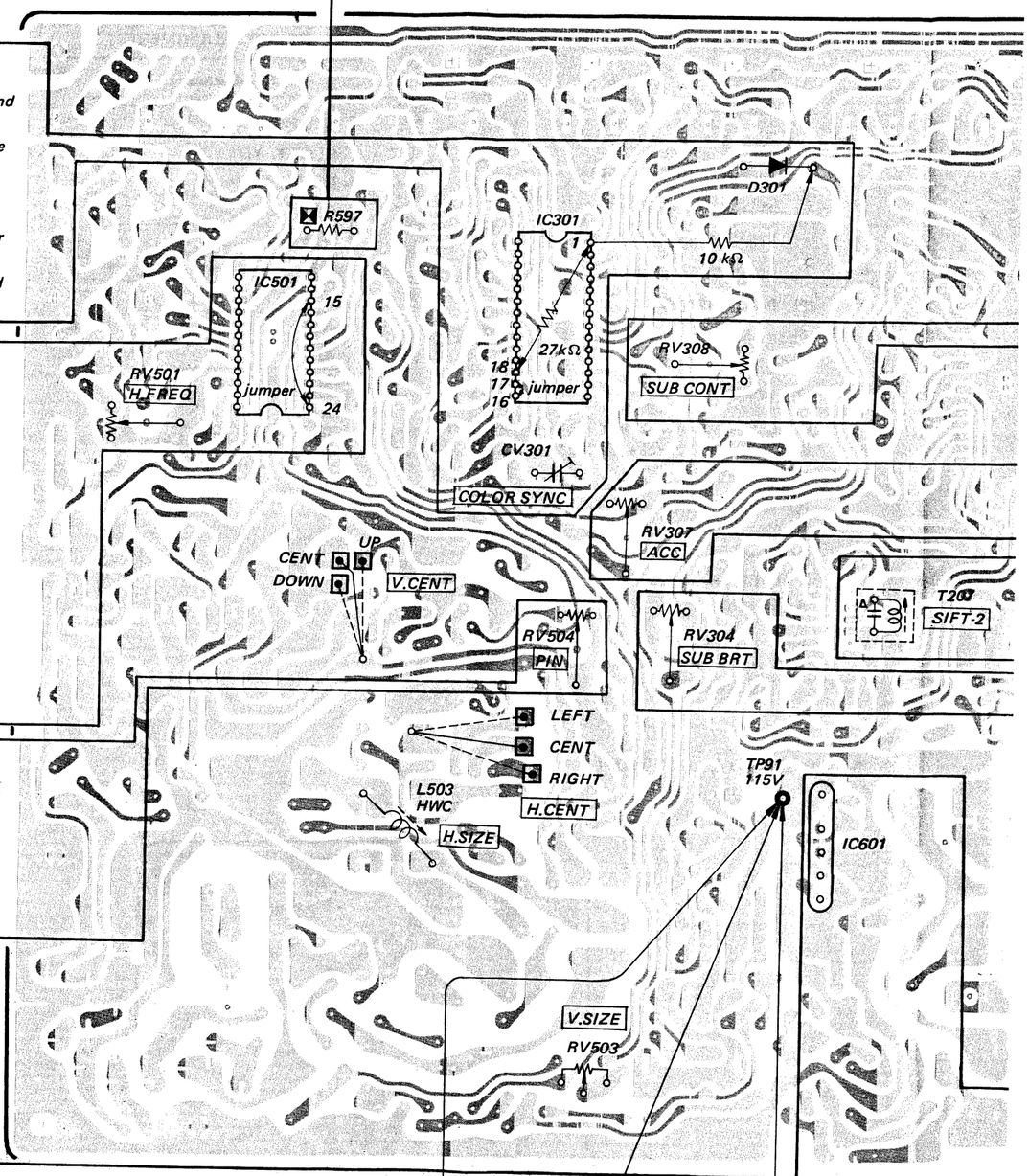
fo: too low — fo; suitable (fo=15.734Hz) — fo; too high

5. Confirm that the stable picture is obtained on other channels.

PIN AMP

Adjust RV504 to make vertical lines straight as shown below.





R597 ADJUSTMENT

Note: When replacing the following components, make this adjustment.
IC501, D502, C513, R510, R532, R561, R597, R598

1. Connect a regulated dc power supply to the TP91 and supply 135.0 ± 1.0V dc.
2. When the dc voltage is supplied, confirm that the picture disappears and no sound is heard. (HV hold down circuit operates).
   Note: As soon as the HV hold down circuit operates, turn the POWER switch to OFF.
3. Supply 120V dc to the TP91 and confirm that the picture does not disappear and the sound is heard continuously.
4. If the above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 3.

tor between the pins 1 and

tor between the cathode
C301.

pins 16 and 17 of

ain the stable the color

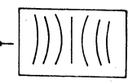
and 10kΩ resistors and

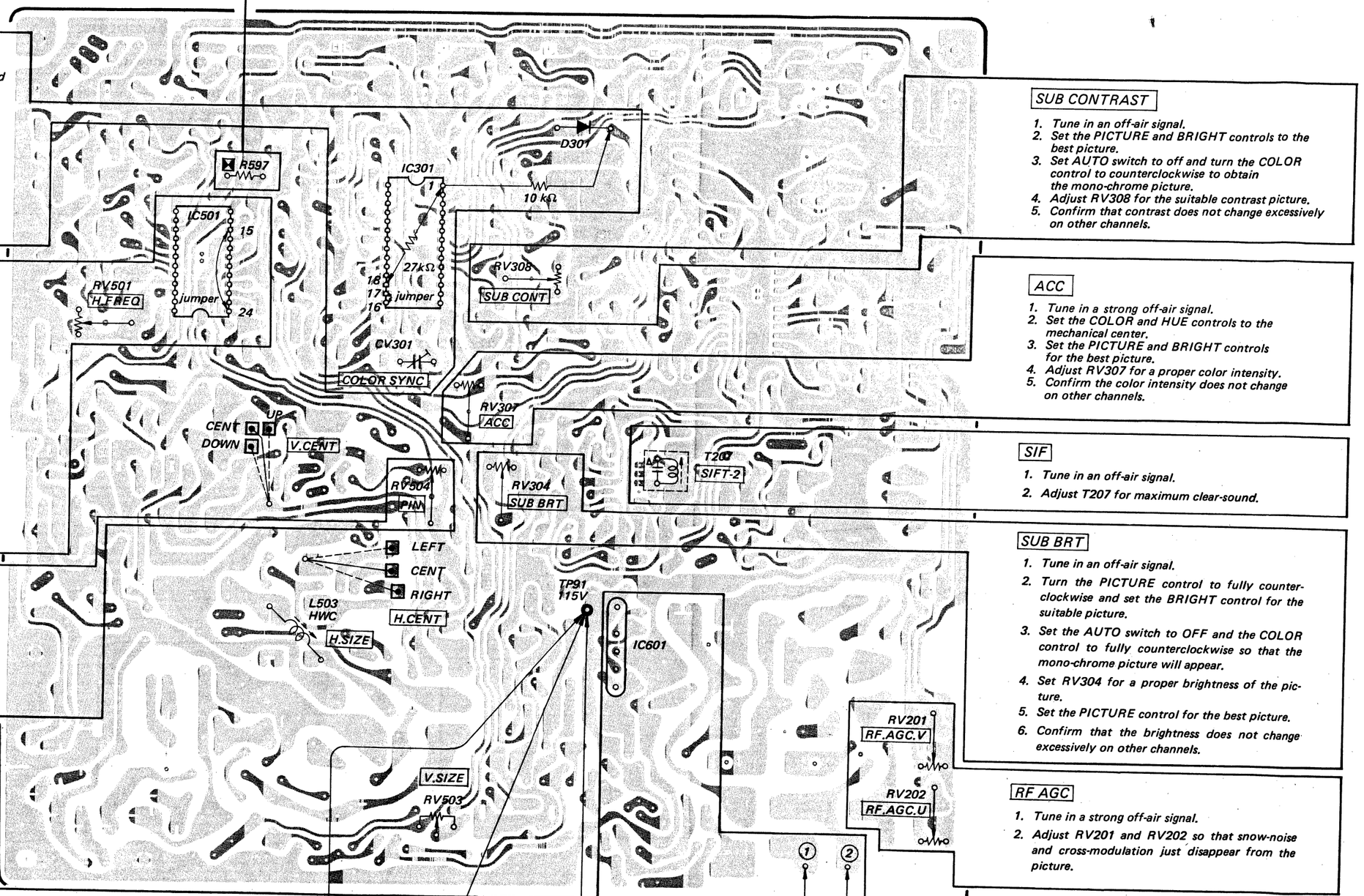
d V.HOLD con-
picture.
s 24 and 15 of
adjustment.
ture as shown.

fo; too high

e is obtained on

lines straight as





SUB CONTRAST

1. Tune in an off-air signal.
2. Set the PICTURE and BRIGHT controls to the best picture.
3. Set AUTO switch to off and turn the COLOR control to counterclockwise to obtain the mono-chrome picture.
4. Adjust RV308 for the suitable contrast picture.
5. Confirm that contrast does not change excessively on other channels.

ACC

1. Tune in a strong off-air signal.
2. Set the COLOR and HUE controls to the mechanical center.
3. Set the PICTURE and BRIGHT controls for the best picture.
4. Adjust RV307 for a proper color intensity.
5. Confirm the color intensity does not change on other channels.

SIF

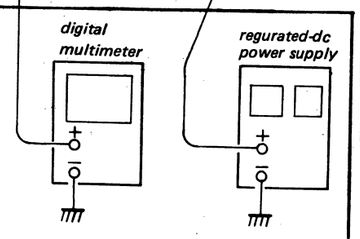
1. Tune in an off-air signal.
2. Adjust T207 for maximum clear-sound.

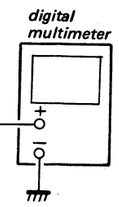
SUB BRT

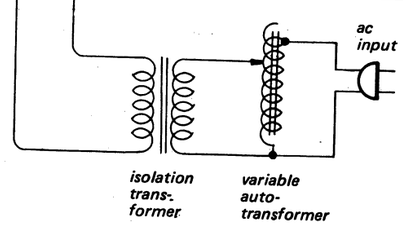
1. Tune in an off-air signal.
2. Turn the PICTURE control to fully counter-clockwise and set the BRIGHT control for the suitable picture.
3. Set the AUTO switch to OFF and the COLOR control to fully counterclockwise so that the mono-chrome picture will appear.
4. Set RV304 for a proper brightness of the picture.
5. Set the PICTURE control for the best picture.
6. Confirm that the brightness does not change excessively on other channels.

RF AGC

1. Tune in a strong off-air signal.
2. Adjust RV201 and RV202 so that snow-noise and cross-modulation just disappear from the picture.







CHECK AFTER IC601 REPLACED

Note: When IC601 is replaced, make this check certainly.

1. Supply 132 V ac to the point as shown with variable auto-transformer.
2. Tune in an off-air signal.
3. Set the PICTURE and BRIGHT controls to mechanical center.
4. Confirm the voltage on digital multimeter is less than 117 V dc.
5. If step 4 is not satisfied, replace IC601 and repeat above steps.

ollowing components,

R510, R532, R561,

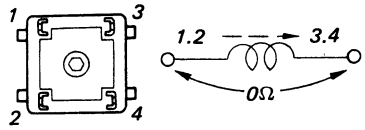
power supply to the
1.0V dc.
pplied, confirm that
d no sound is heard.
erates).
V hold down circuit
POWER switch to

3. Supply 120V dc to the TP91 and confirm that the picture does not disappear and the sound is heard continuously.
4. If the above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 3.

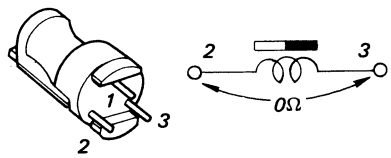
SECTION 5
DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

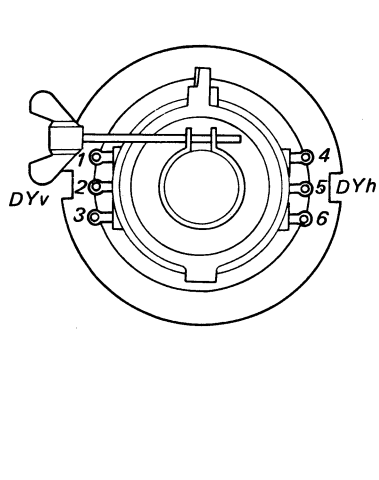
L503
HWC



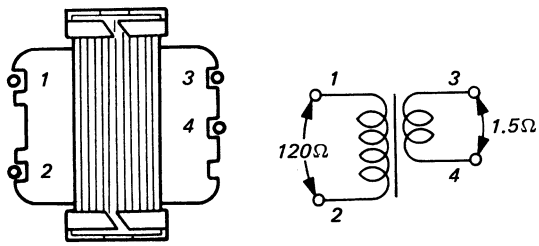
L504
HLC



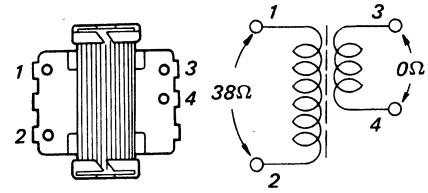
L906
DY



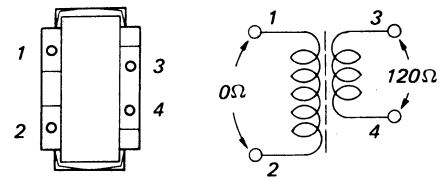
T209 (SOT)



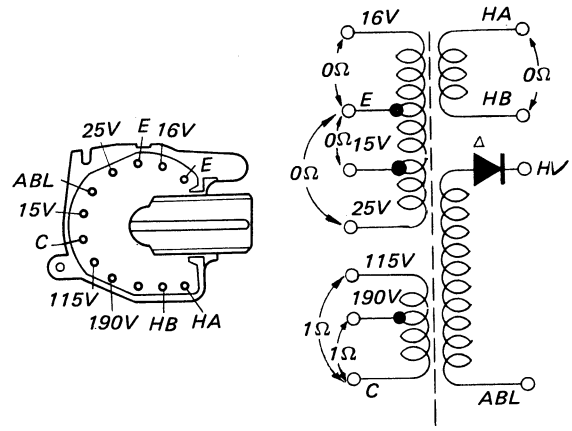
T501
HDT



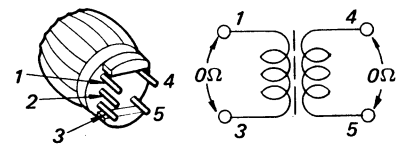
T502
H.PCT



T503
FBT

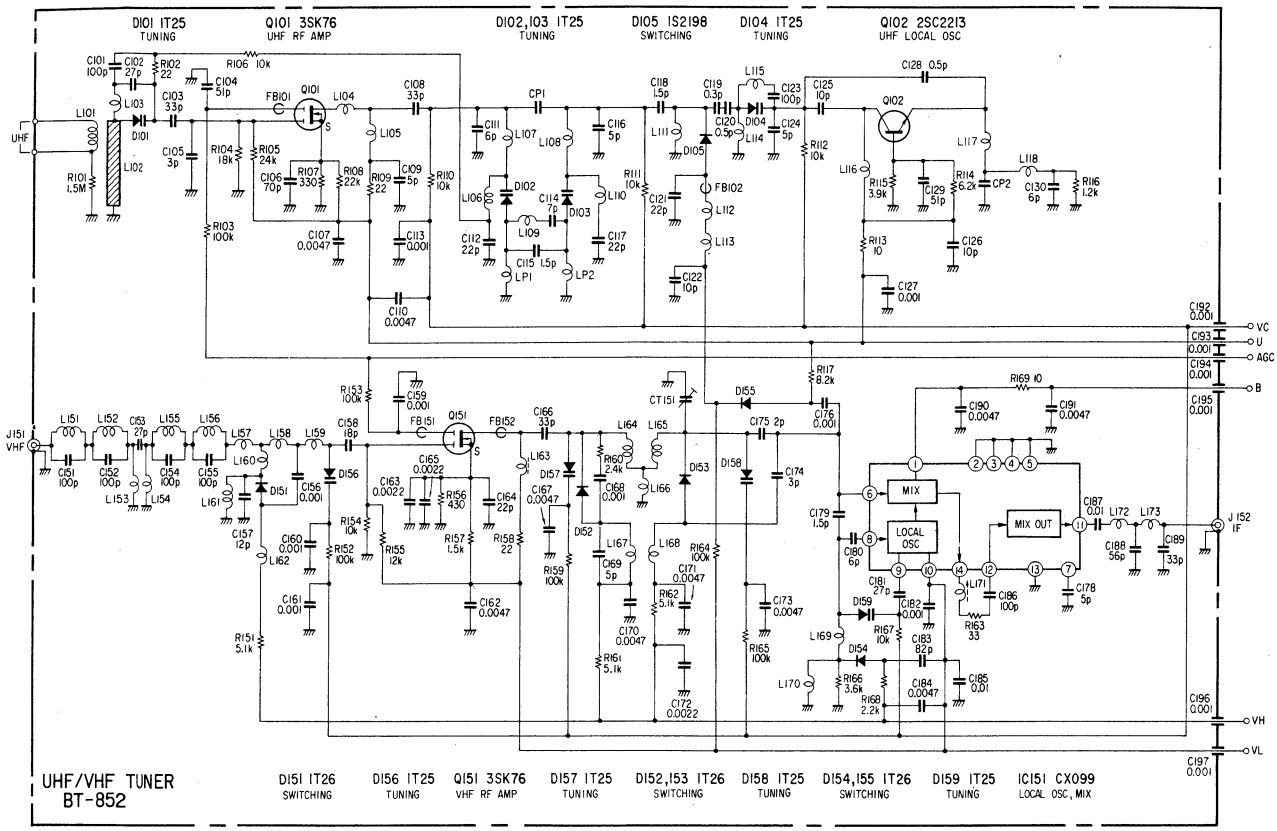


T601
LFT



• DC resistance measurements shown with coils and transformers disconnected from circuit.

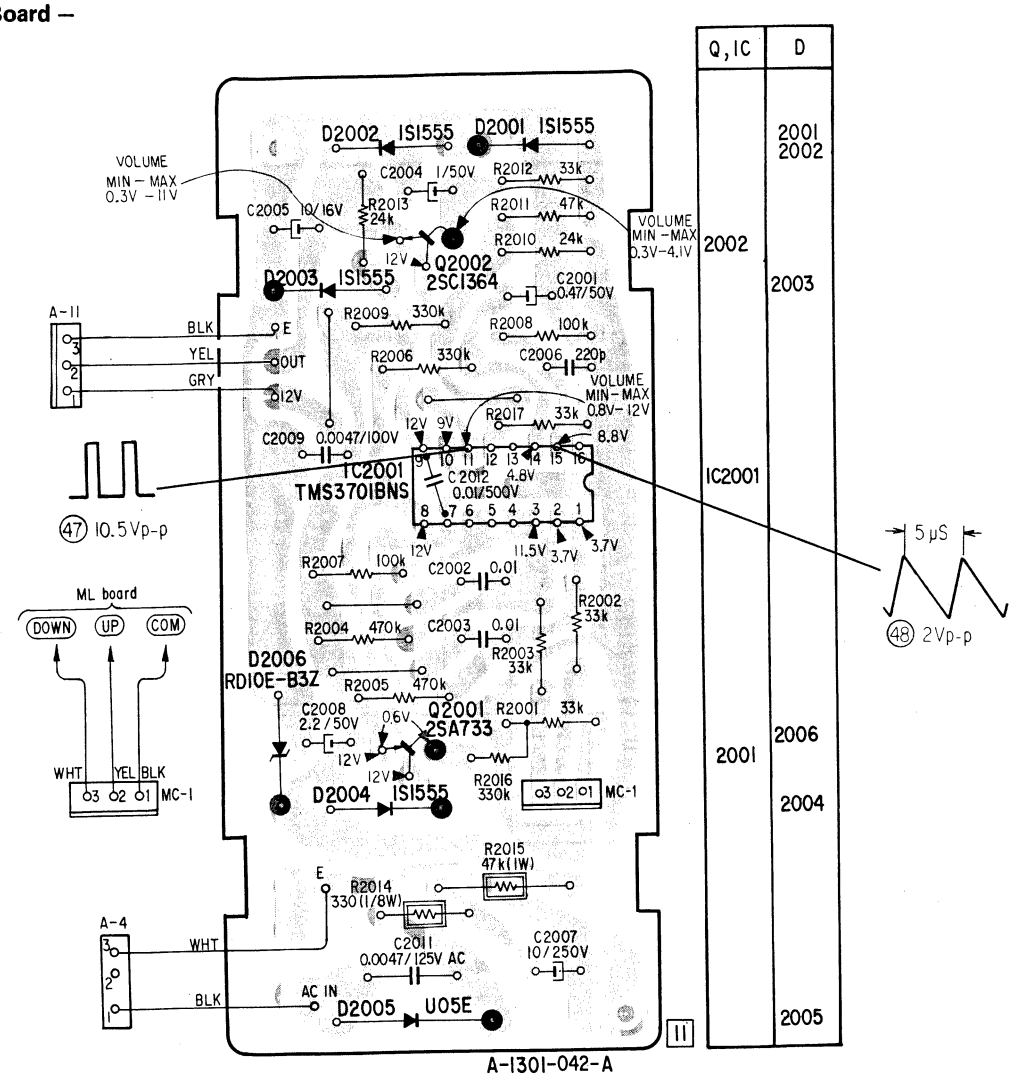
5-2. UHF/VHF TUNER SCHEMATIC DIAGRAM



- Tuner reference numbers are not included in the Electrical Parts List (Page 41–47).

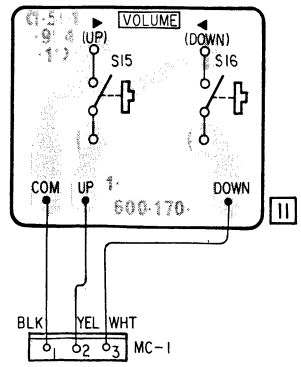
5-3. MOUNTING DIAGRAMS — Conductor Side —

— MC Board —



A-1301-042-A

— ML Board —

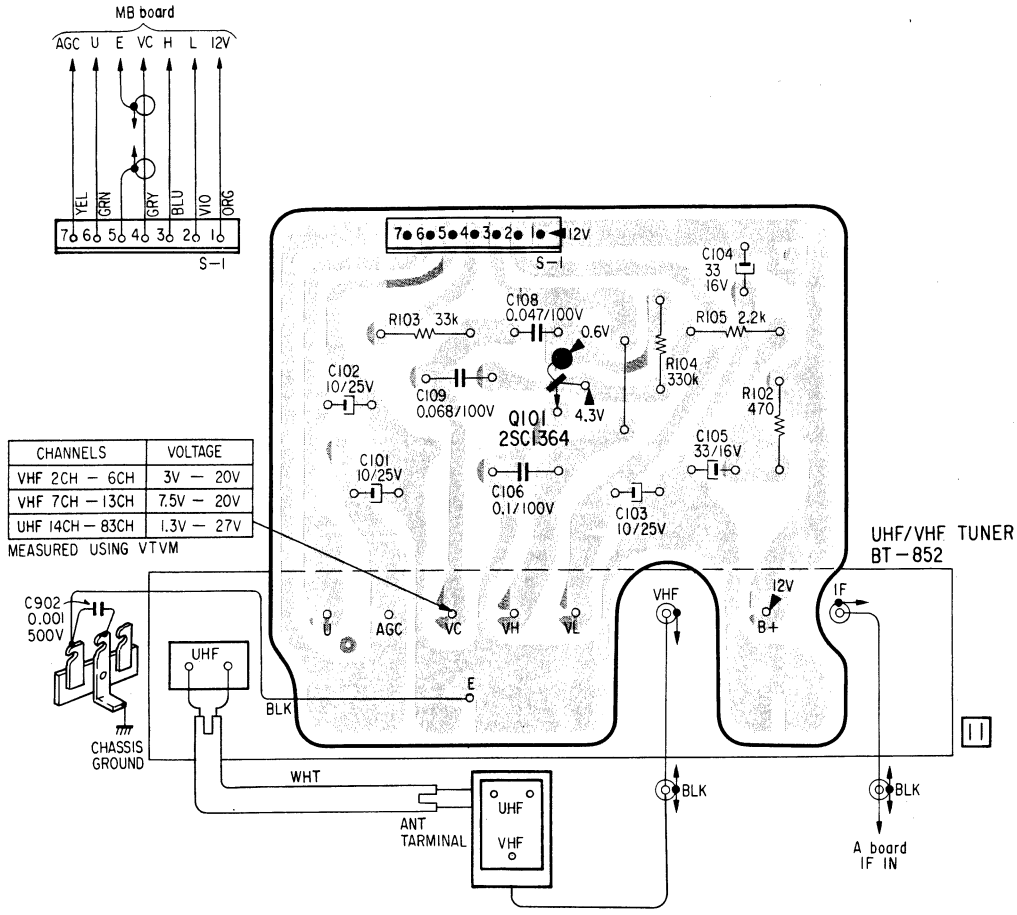


Note:

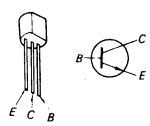
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

S [TUNER, ACTIVE FILTER]

— S Board —



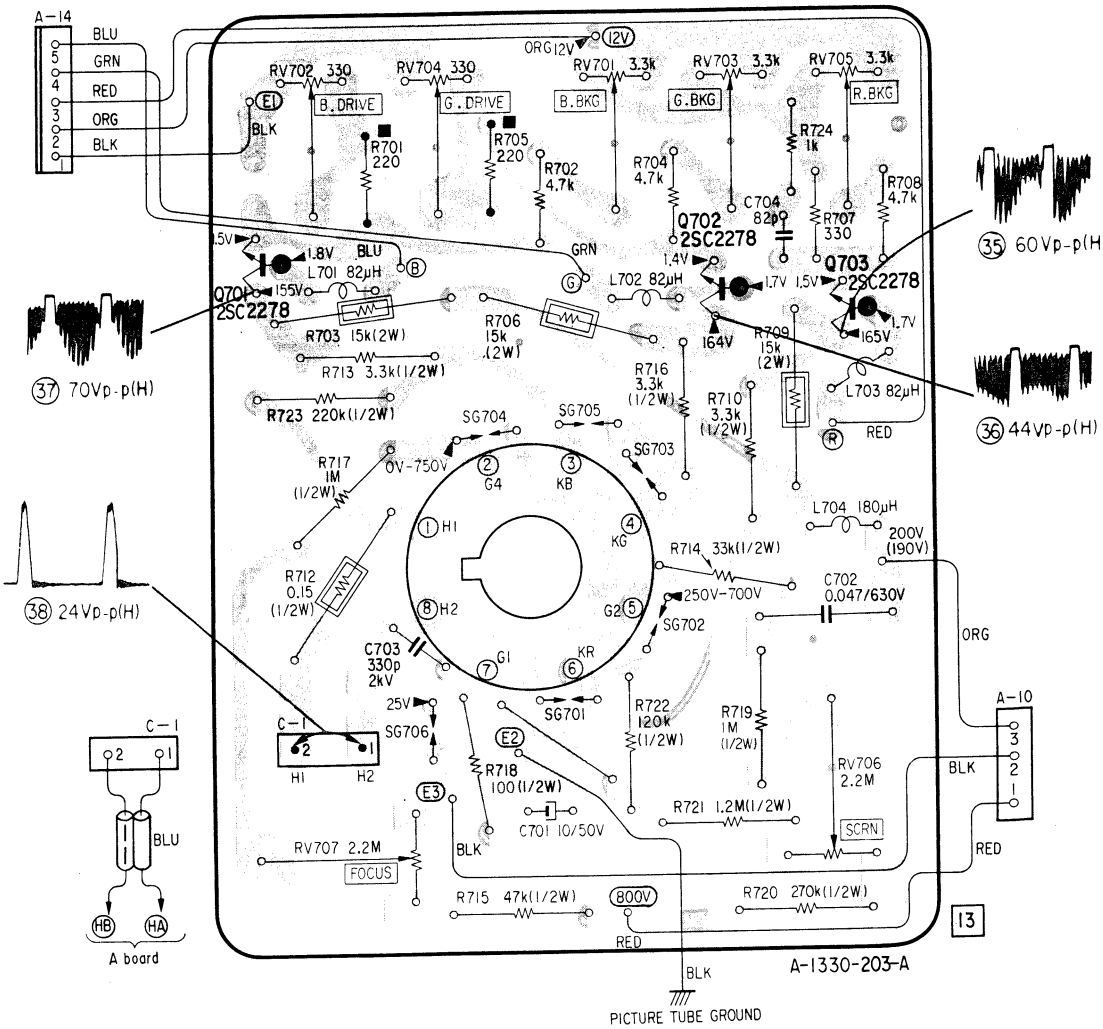
2SC1364



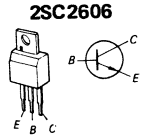
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

– C Board –



2SC2278
2SC2606

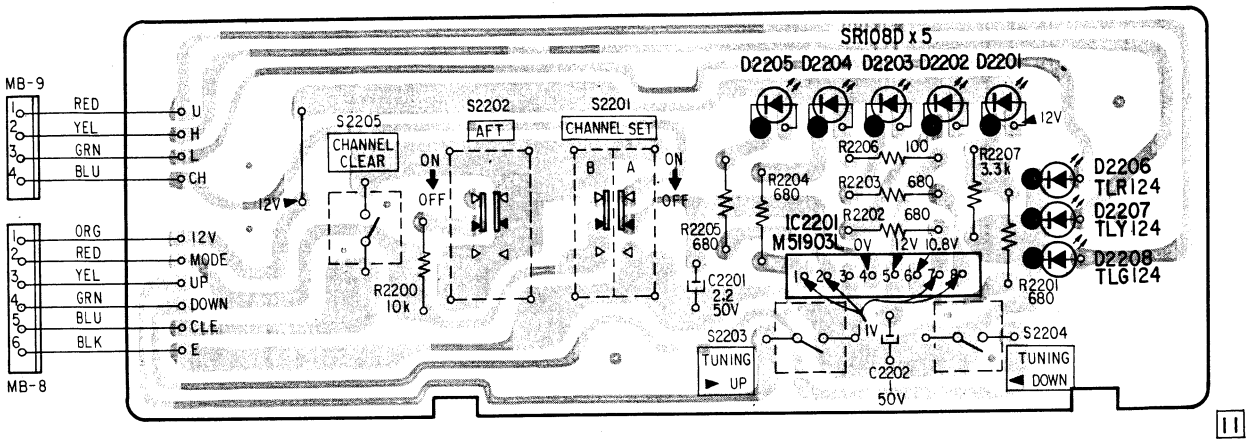


Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

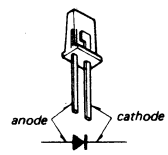
MJ [CHANNEL SET]

– MJ Board –

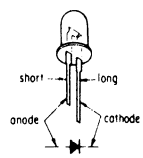


M51903L

SR108D



TLG124
TLR124
TLY124

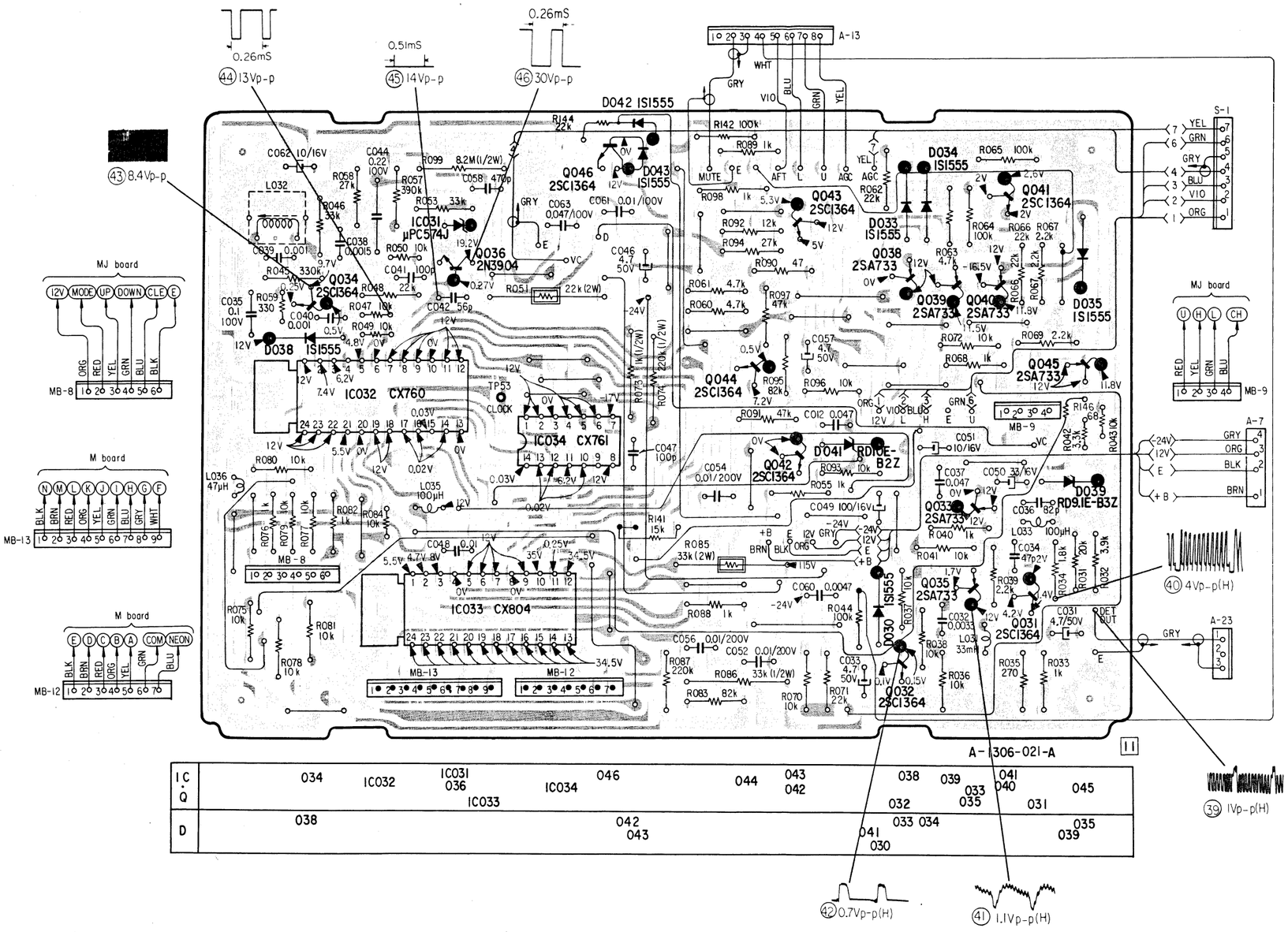


Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

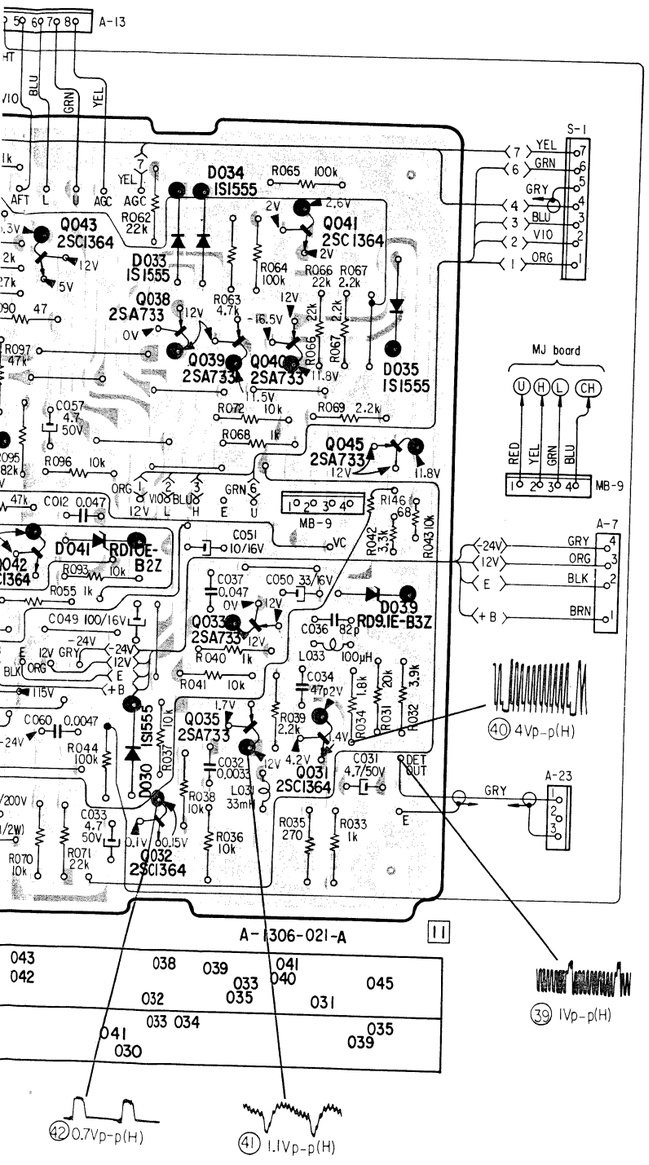
[TUNING CONTROL, MEMORY, NEON DRIVE
BAND SWITCH, WIDE AFT DEFEAT] **MB** **MB**

– MB Board –

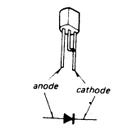


| | | |

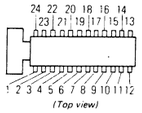
MB



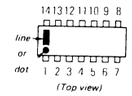
μPC574J



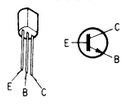
CX760
CX804



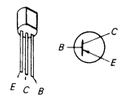
CX761



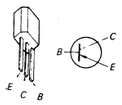
2N3904



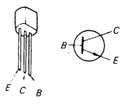
2SA733



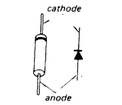
2SA1027R



2SC1364



1S1555
RD9.1E-B3Z
RD10E-B2Z

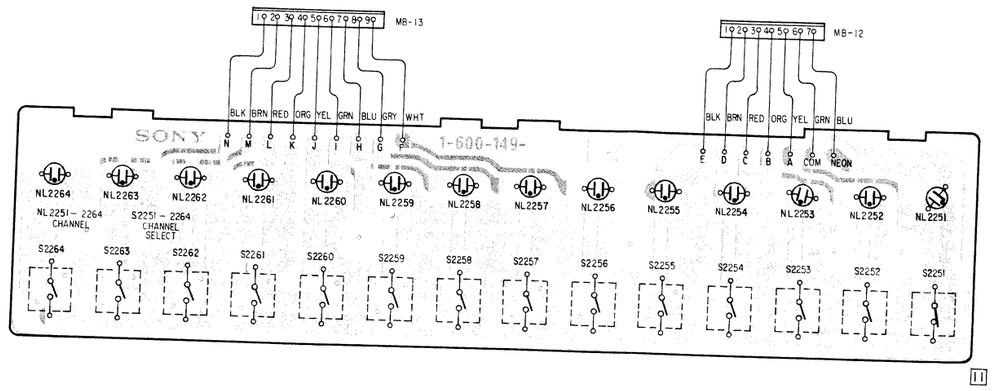


Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

CHANNEL SELECT BLOCK **M**

– M Board –



Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

– A Board –

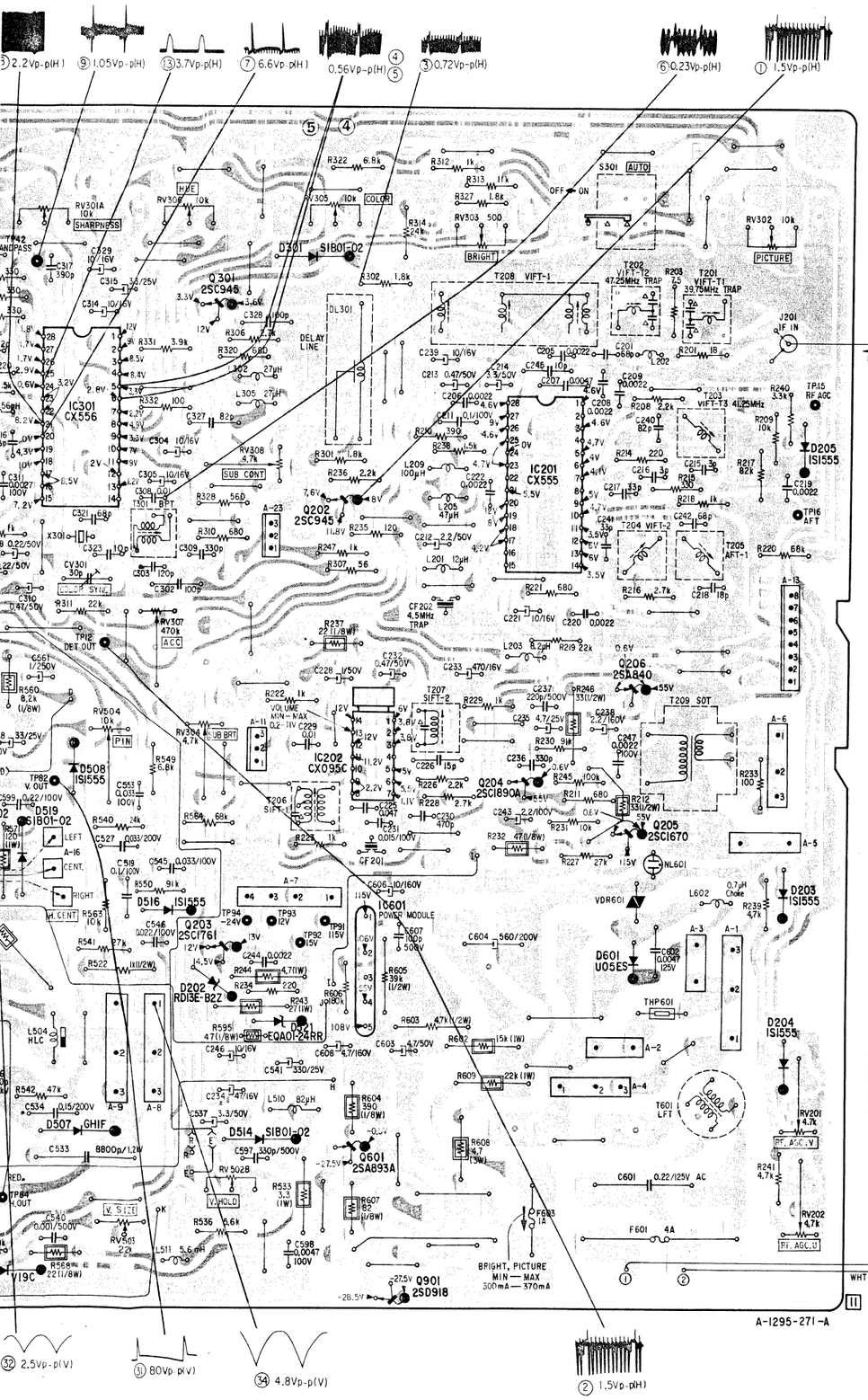
Q, IC	D	ADJ
504	301	
301		
501	502	
IC301		
IC501	205	RV308
IC201		
902, 202		
		RV501
		T205
	513	CV301
	503	RV307
501		
206		
503	502	T207
		RV504
505	IC202	RV304
506	508	
204		T206
505		
205	518, 519	
	203	
516		
504		
203	601	L503
IC601	202	
	521	
	204	
		RV201
	507	
601	509, 514	
	510	RV202
		RV503
		RV901
	511	
901		

(14) 11.5Vp-p(H) (27) 3.6Vp-p(V) (29) 3.3Vp-p(V) (28) 1.3Vp-p(V) (10) 3Vp-p(H) (11) 2.6Vp-p(H) (12) 3.3Vp-p(H) (8) 2.2Vp-p(H) (9) 1.05Vp-p(H) (13) 3.7Vp-p(H) (7) 6.6Vp-p(H) 0.56Vp-p(H) (4) (5) (3) 0.72Vp-p(H) (6) 0.23Vp-p(H) (1) 1.5Vp-p(H)

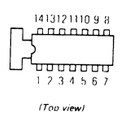
(23) 85Vp-p(H) (22) 4.2Vp-p(H) (21) 5.4Vp-p(H) (20) 2Vp-p(H) (19) 0.24Vp-p(H) (18) 0.7Vp-p(H) (24) 15Vp-p(H) (25) 880Vp-p(H) (16) 2.6Vp-p(H) (17) 3.4Vp-p(H) (30) 2.5Vp-p(V)

(26) 1.4Vp-p(H) (15) 1.15Vp-p(H) (33) 28Vp-p(V) (32) 2.5Vp-p(V) (31) 80Vp-p(V) (34) 4.8Vp-p(V) (2) 1.5Vp-p(H)

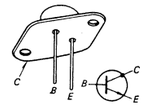
A-1295-271-A



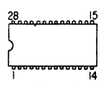
CX095C



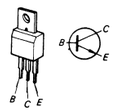
2SC1875



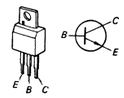
CX555
CX556



2SC1761
2SC2141

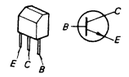


2SC1962



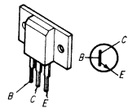
CX557

2SD571

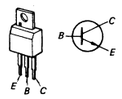


IC601

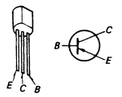
2SD-918



2SA835

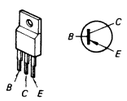


2SA840
2SA893A



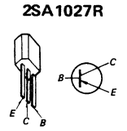
1S1555
1T40
10E2
GH3F
RD5.6E-BZ7S
RD12E-B1Z
RD13E-B2Z

2SA951



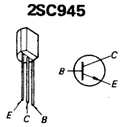
EQA01-24RR
SIB01-02

2SA1027R

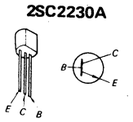


GH1F
U05ES
V19C
V19E
V30N

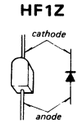
2SC945



2SC1364
2SC1670
2SC1890A
2SC2230A



HF1A
HF1Z



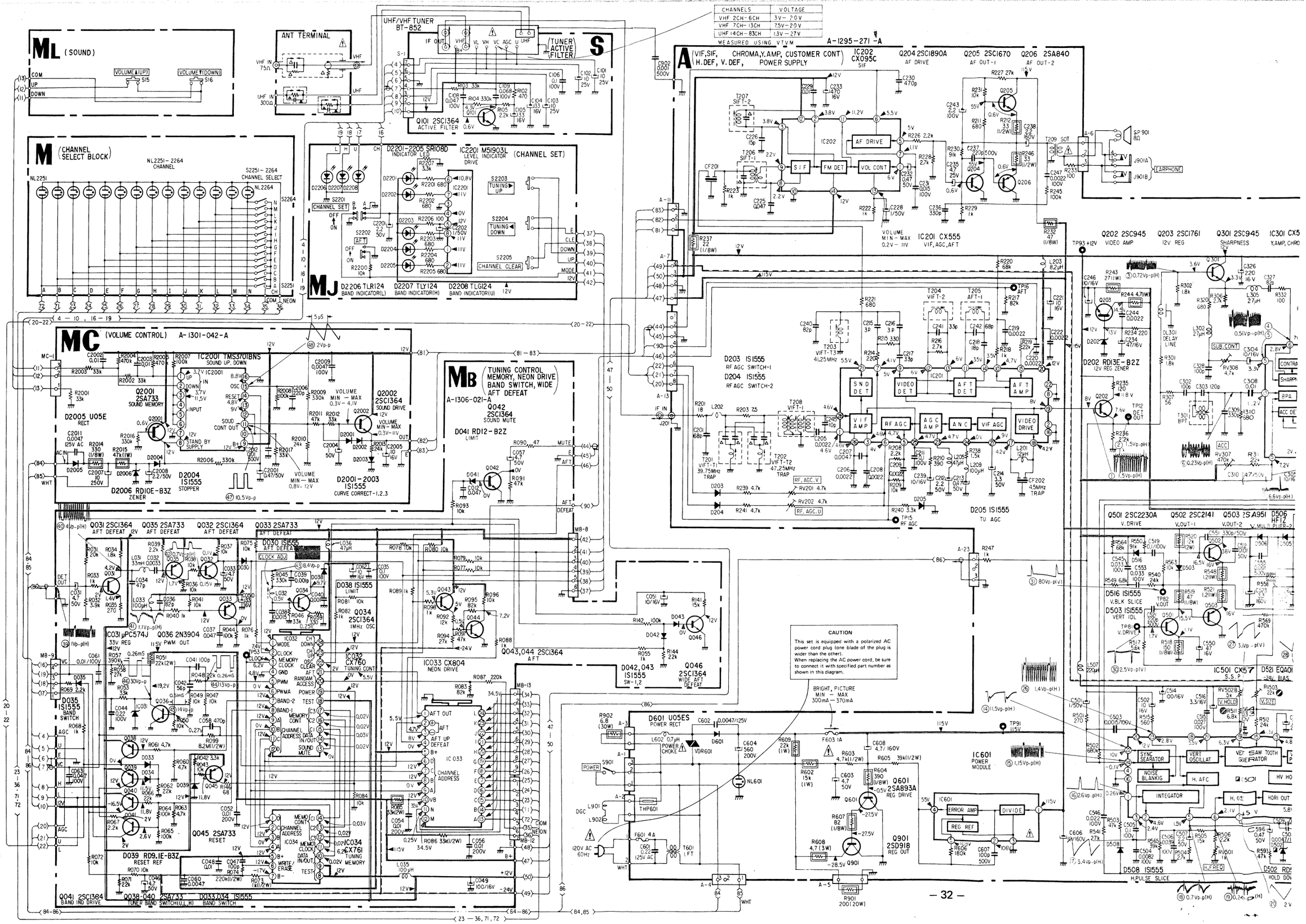
5-4. SCHEMATIC DIAGRM

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the spedified value is achieved. (Refer to R597 adjustment on page 16).
  When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
C513, D502, IC501 R510, R532, R561 R597, 598	R597 adjustment

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on MB board are taken with set selected to channel A and to VHF low band position.
- Voltage variations may be noted due to normal production tolerances.


ML (SOUND)
VOLUME▲(UP) S15
VOLUME▼(DOWN) S16
ANT TERMINAL
UHF/VHF TUNER BT-852
(TUNER ACTIVE FILTER) S
Q101 2SC1364 ACTIVE FILTER
M (CHANNEL SELECT BLOCK)
NL2251-2264 CHANNEL
S2251-2264 CHANNEL SELECT
S2264
S2251
MJ
D2206 TLR124 BAND INDICATOR(L)
D2207 TLY124 BAND INDICATOR(H)
D2208 TLG124 BAND INDICATOR(U)
D2201-2205 SR108D INDICATOR LED
IC2201 M51903L LEVEL DRIVE (CHANNEL SET)
S2203 TUNING UP
S2204 TUNING DOWN
S2205 CHANNEL CLEAR
MC (VOLUME CONTROL) A-1301-042-A
IC2001 TMS3701BNS SOUND UP, DOWN
Q2001 2SA733 SOUND MEMORY
Q2002 2SC1364 SOUND DRIVE
D2005 U05E RECT
D2006 RD10E-B3Z ZENER
D2004 1S1555 STOPPER
D2001-2003 1S1555 CURVE CORRECT-1,2,3
MB (TUNING CONTROL MEMORY, NEON DRIVE BAND SWITCH, WIDE AFT DEFEAT)
A-1306-021-A
Q042 2SC1364 SOUND MUTE
D041 RD12-B2Z LIMIT
Q041 2SC1364 BAND IND DRIVE
Q031 2SC1364 AFT DEFEAT
Q035 2SA733 AFT DEFEAT
Q032 2SC1364 AFT DEFEAT
Q033 2SA733 AFT DEFEAT
D030 1S1555 AFT DEFEAT CLOCK ADJ
IC031 μPC574J 33V REG
Q036 2N3904 115V PWM OUT
D035 1S1555 BAND SWITCH
D039 RD9.1E-B3Z RESET REF
Q045 2SA733 RESET
Q038-040 2SA733 TUNER BAND SWITCH(U,L,H)
D033,034 1S1555 BAND SWITCH
IC032 CX760 TUNING CONT
IC033 CX804 NEON DRIVE
IC034 CX761 TUNING MEMORY
D038 1S1555 LIMIT
Q034 2SC1364 1MHz OSC
Q043,044 2SC1364 AFT
D042,043 1S1555 SW-1,2
Q046 2SC1364 WIDE AFT DEFEAT
CAUTION
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other).
When replacing the AC power cord, be sure to connect it with specified part number as shown in this diagram.
A (VIF,SIF, CHROMA,Y.AMP, CUSTOMER CONT H.DEF, V.DEF, POWER SUPPLY)
A-1295-271-A
IC202 CX095C SIF
Q204 2SC1890A AF DRIVE
Q205 2SC1670 AF OUT-1
Q206 2SA840 AF OUT-2
IC201 CX555 VIF,AGC,AFT
VOLUME MIN-MAX 0.2V-11V
D203 1S1555 RF AGC SWITCH-1
D204 1S1555 RF AGC SWITCH-2
D205 1S1555 TU AGC
D201 RD13E-B2Z 12V REG ZENER
Q202 2SC945 VIDEO AMP
Q203 2SC1761 12V REG
Q301 2SC945 SHARPNESS
IC301 CX5 Y.AMP, CHRO
Q501 2SC2230A V.DRIVE
Q502 2SC2141 V.OUT-1
Q503 2SA951 V.OUT-2
D506 HFIZ V.MULTI PLIER-2
D516 1S1555 V.BLK SLICE
D503 1S1555 VERT IDL
IC501 CX5 S.S.P
D521 EQA01 -24V BIAS
D508 1S1555 H.PULSE SLICE
D601 U05ES POWER RECT
Q601 2SA893A REG DRIVE
Q901 2SD918 REG OUT
IC601 POWER MODULE
ERROR AMP
REG REF
DIVIDE
SYNC SEPARATOR
NOISE BLANKIG
INTEGATOR
VERT OSCILLAT
VERT SAW TOOTH GNERATOR
H. AFC
H. OSC
HORI OUT
HV HO
VERT OUT
SUB.CONT
CONTRA
SHARPN
BPA
ACC DE
ACC
H.FREQ
HOLD DO
V.SIZE
V.HOLD
S.P 901 8Ω
J901A EARPHONE
J901B
TP93 +12V
TP12 DET OUT
TP15 RF AGC
TP91 115V
TP82 V.OUT
TP81 V.DRIVE
CHANNELS | VOLTAGE
VHF 2CH-6CH | 3V-7.0V
VHF 7CH-13CH | 7.5V-20V
UHF 14CH-83CH | 13V-27V
MEASURED USING VTVM

CHANNELS	VOLTAGE
VHF 2CH~6CH	3V~ 20V
VHF 7CH~13CH	7.5V~20V
UHF 14CH~83CH	13V~27V

MEASURED USING VTVM

CAUTION
Be sure to connect
the C-2 connector for safety

CAUTION
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other).
When replacing the AC power cord, be sure to connect it with specified part number as shown in this diagram.

: See page 16

MEMO

SECTION 6
EXPLODED VIEWS

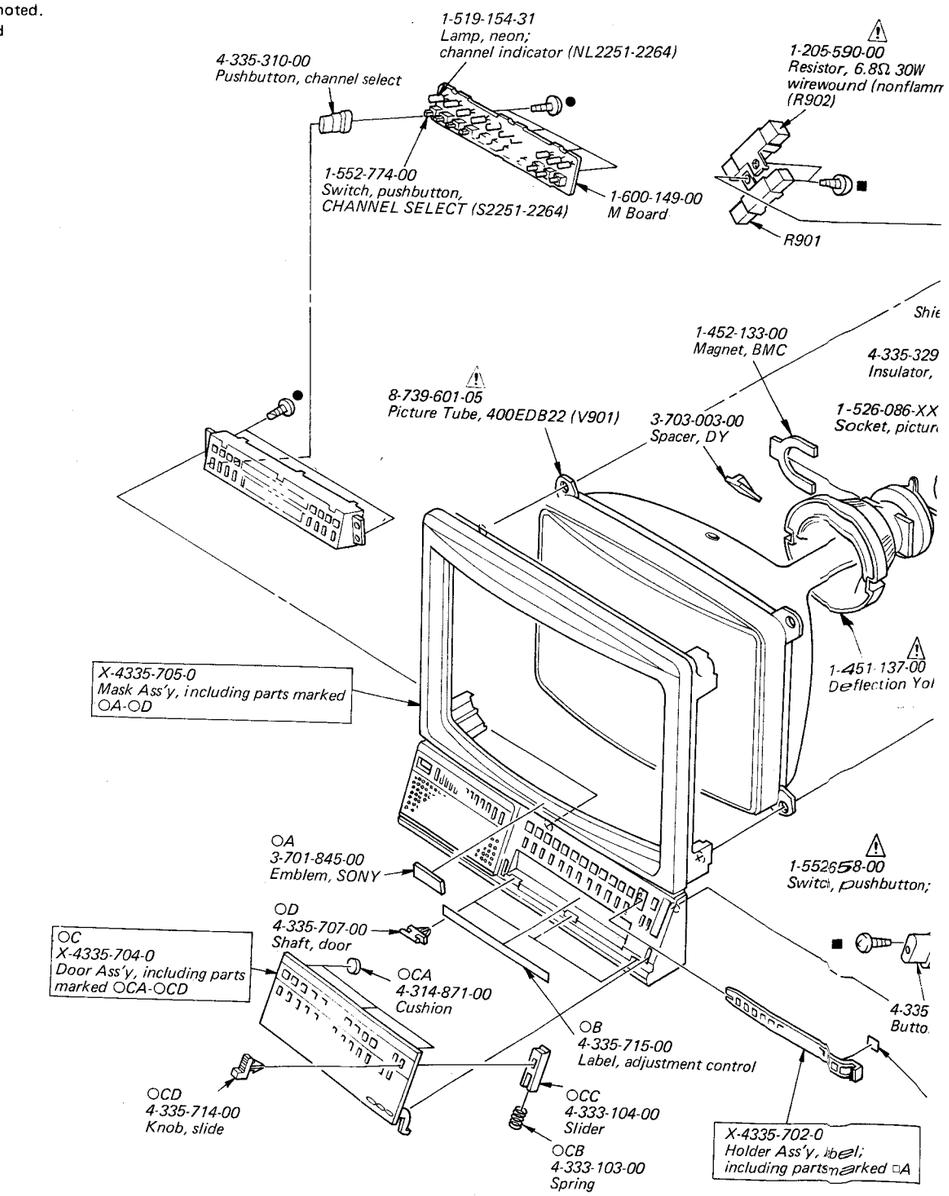
(1)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

■: TA, BV3x8
●: TA, BV3x12
▲: TA, BV4x12



SECTION 6
EXPLODED VIEWS

(1)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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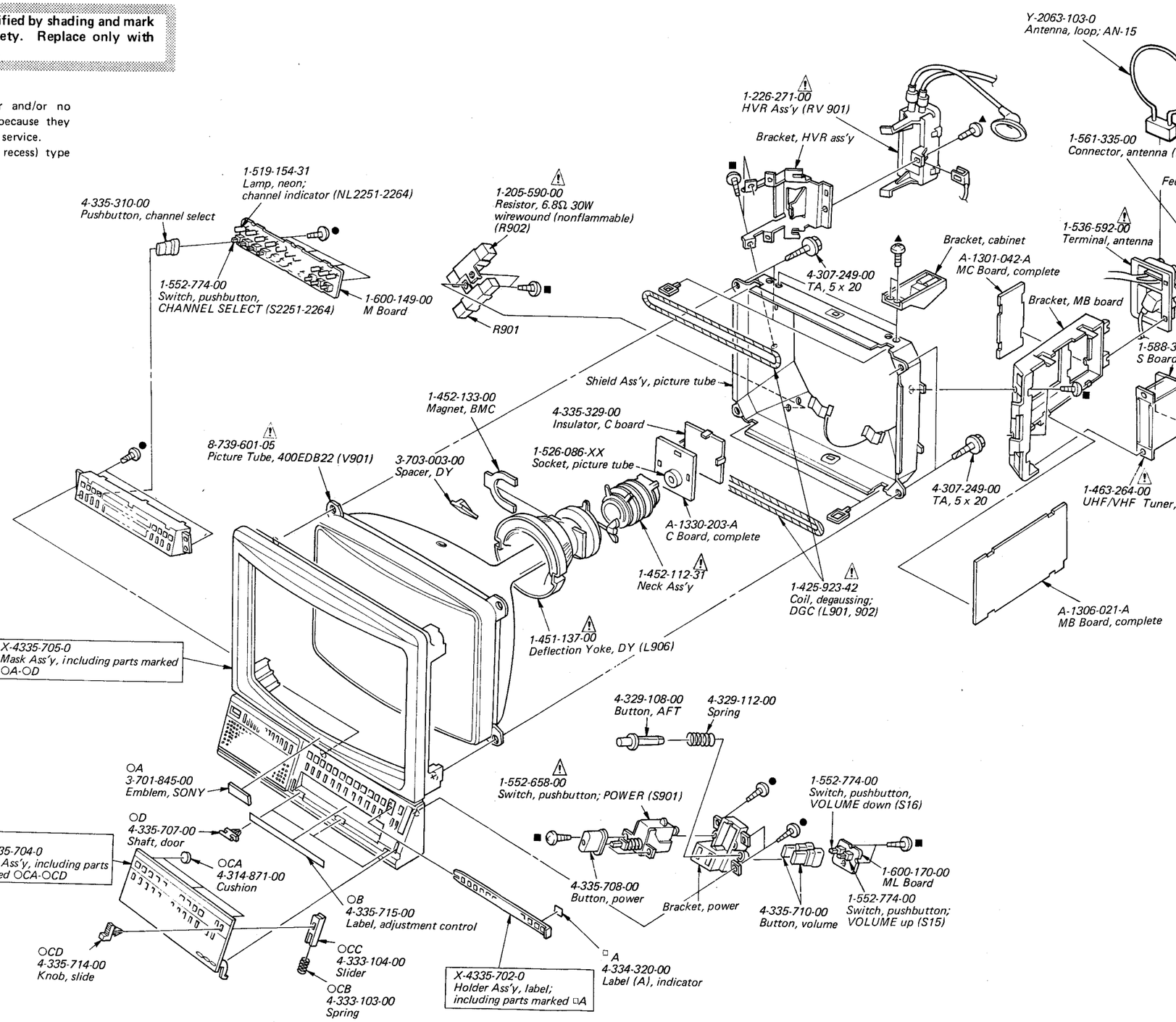
■: TA, BV3x8
●: TA, BV3x12
▲: TA, BV4x12

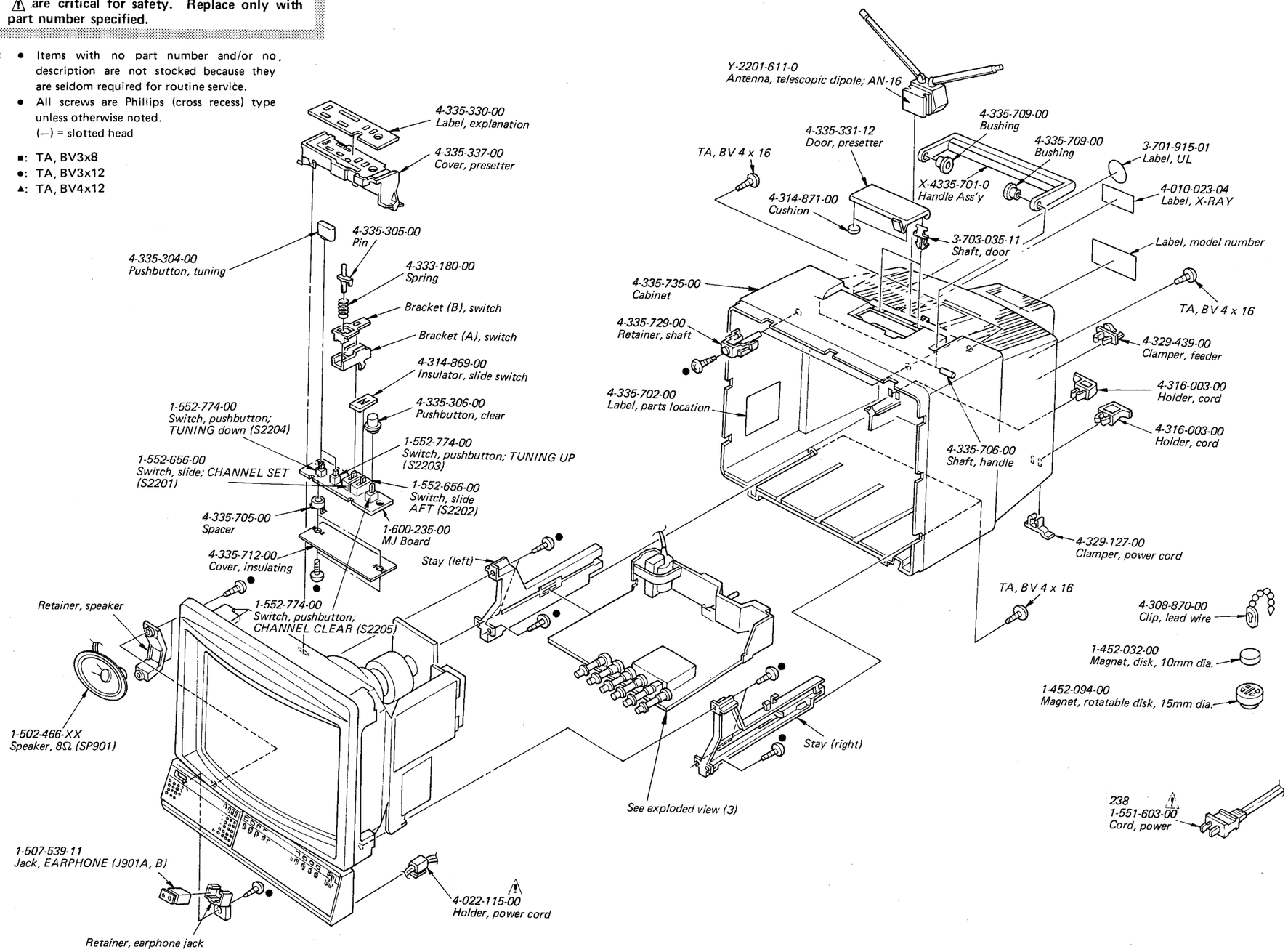


(2)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head

■: TA, BV3x8
●: TA, BV3x12
▲: TA, BV4x12



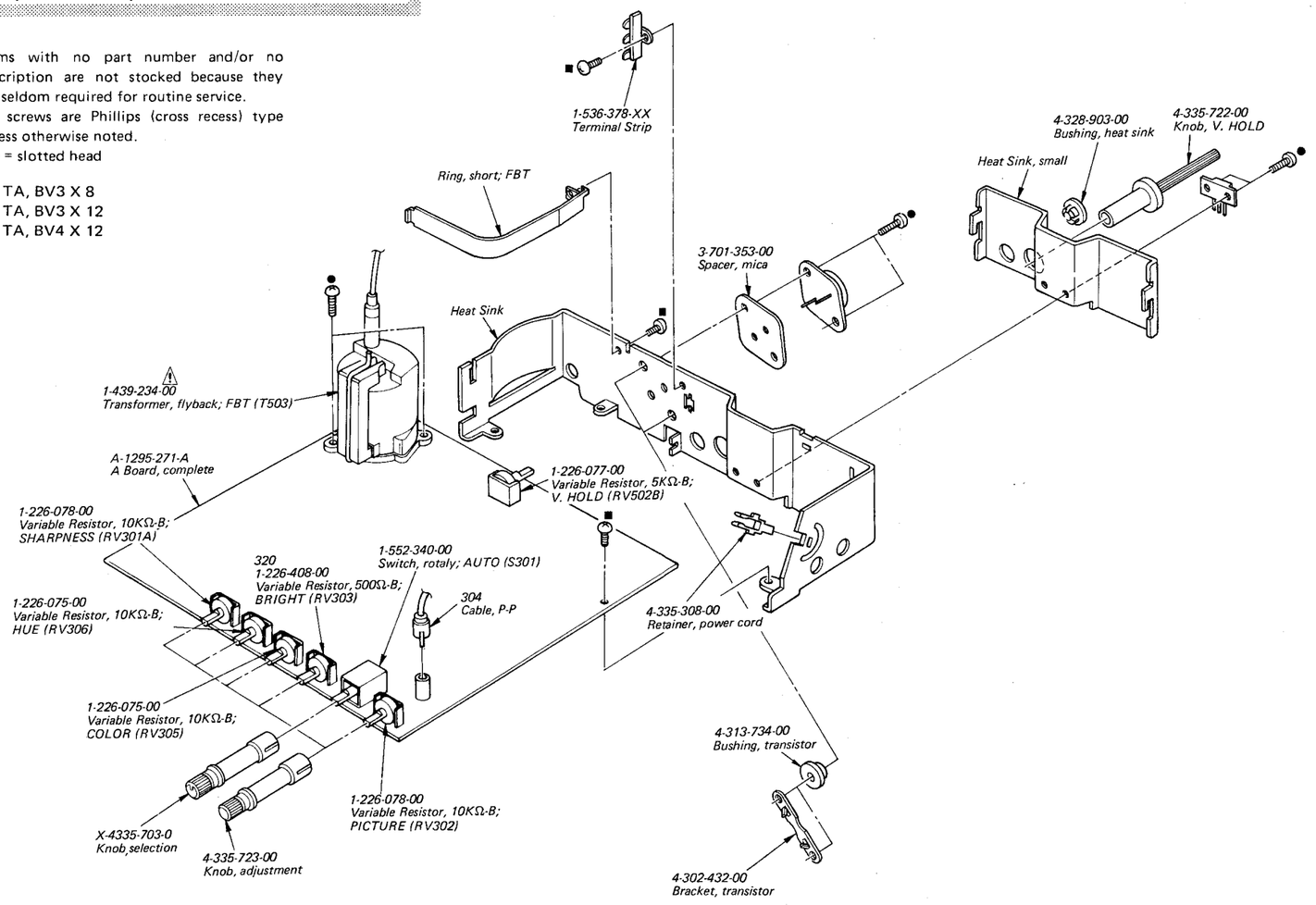
(3)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

■ : TA, BV3 X 8
● : TA, BV3 X 12
▲ : TA, BV4 X 12



SECTION 7
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	TUNER AND CIRCUIT BOARDS	
	⚠1-463-264-00	UHF/VHF tuner, BT-852
	1-588-342-00	S Board
	1-600-149-00	M Board
	1-600-170-00	ML Board
	1-600-235-00	MJ Board
	A-1295-271-A	A Board, complete
	A-1330-203-A	C Board, complete
	A-1301-042-A	MC Board, complete
	A-1306-021-A	MB Board, complete
	SEMICONDUCTORS	
	Transistors	
Q031	8-729-663-47	2SC1364
Q032	8-729-663-47	2SC1364
⇒Q033	8-729-612-77	2SA1027R
Q034	8-729-663-47	2SC1364
⇒Q035	8-729-612-77	2SA1027R
Q036	8-729-139-04	2N3904
⇒Q038–040	8-729-612-77	2SA1027R
Q041–044	8-729-663-47	2SC1364
⇒Q045	8-729-612-77	2SA1027R
Q046	8-729-663-47	2SC1364
Q101	8-729-663-47	2SC1364
⇒Q202	8-729-663-47	2SC1364
Q203	8-763-113-00	2SC1761
Q204	8-729-309-06	2SC1890A
⇒Q205	8-765-170-01	2SC1962
⇒Q206	8-762-020-00	2SA835
⇒Q301	8-729-663-47	2SC1364
Q501	8-729-213-01	2SC2230A
⇒Q502	8-765-500-00	2SC2141-10
⇒Q503	8-765-510-00	2SA951-10
Q504	8-729-213-01	2SC2230A
Q505	8-729-157-11	2SD571
Q601	8-729-309-36	2SA893A
Q701–703	8-729-322-78	2SC2278
Q901	8-729-191-81	2SD918
Q902	8-729-118-76	2SC1875
⇒Q2001	8-729-612-77	2SA1027R
Q2002	8-729-663-47	2SC1364
	ICs	
IC031	8-759-157-40	μPC574J
IC032	8-757-600-00	CX760
IC033	8-758-040-00	CX804
IC034	8-757-610-00	CX761
IC201	8-759-605-55	CX555
IC202	8-759-600-95	CX095C
IC301	8-759-105-56	CX556
IC501	8-759-105-57	CX557
IC601	⚠1-231-462-00	Module, power
IC2001	8-759-937-01	TMS3701BNS
IC2201	8-759-619-03	M51903L
	DIODES	
D030	8-719-815-55	1S1555
D033–035	8-719-815-55	1S1555
D038	8-719-815-55	1S1555
D039	8-719-191-26	RD9.1E-B3Z
D041		RD10E-B2Z
D042, 043	8-719-815-55	1S1555
D202	8-719-113-25	RD13E-B2Z
D203–205	8-719-815-55	1S1555
⇒D301	8-719-200-02	10E2
D501	8-719-112-24	RD12E-B1Z
D502	8-719-156-23	RD5.6E-BZ7S
D503	8-719-815-55	1S1555
D504	8-719-901-93	V19E
D505	8-719-901-02	SIB01-02
⇒D506	8-719-320-11	HF1A

• ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*
⇒D507	8-719-305-15	GH3F
D508	8-719-815-55	1S1555
D509	8-719-903-09	V30N
D510	8-719-320-11	HF1A
D511	8-719-901-92	V19C
D513	8-719-815-55	1S1555
D514	8-719-200-02	10E2
D516	8-719-815-55	1S1555
D518	8-719-901-02	SIB01-02
D519	8-719-901-02	SIB01-02
D521	8-719-906-24	EQA01-24RR
D601	8-719-912-54	U05ES
D2001–2004	8-719-815-55	1S1555
D2005	8-719-911-55	U05G
D2006	8-719-110-26	RD10E-B3Z
⇒D2201–2205	8-719-101-00	SR108D-M
D2206	8-719-812-41	TLR124
D2207	8-719-812-42	TLY124
D2208	8-719-812-43	TLG124

MISCELLANEOUS

THP601	1-800-567-00	Thermistor, positive

COILS

All coils are microinductors unless otherwise noted.

DL301	1-415-164-00	Delay Line
L031	1-407-510-XX	33mH
L032	1-409-193-00	Clock OSC
L033, 035	1-407-169-XX	100μH
L036	1-407-165-XX	47μH
L201	1-407-158-XX	12μH
L202	1-425-613-00	Coil
L203	1-407-189-XX	8.2μH
L205	1-407-165-XX	47μH
L209	1-407-169-XX	100μH
L302	1-407-162-XX	27μH
L303	1-407-203-XX	5.6mH
L304	1-407-166-XX	56μH
L305	1-407-162-XX	27μH
L502	1-459-104-00	10mH
L503	⚠1-459-262-00	Horizontal Width, HWC; H. SIZE
L504	⚠1-459-236-00	Horizontal Linearity; HLC
L505	⚠1-407-502-00	6.8mH, Horizontal Centering Choke; HCC
L506	1-407-716-00	820μH
L507	1-407-709-00	220μH
L508, 509	1-407-163-XX	33μH
L510	1-408-226-00	82μH
L511	1-407-203-XX	5.6mH
L512	1-407-184-XX	3.3μH
L602	⚠1-407-365-00	0.7μH, choke
L701-703	1-407-168-XX	82μH
L704	1-407-172-XX	180μH
L901, 902	⚠1-425-923-42	Degaussing, DGC
L905	1-407-365-00	Choke, 0.7μH
L906	⚠1-451-137-00	Deflection Yoke, DY

FILTERS AND TRANSFORMERS

CF201	1-527-260-00	Ceramic Filter
CF202	1-409-332-00	Ceramic Trap, 4.5MHz
T201	1-409-319-00	VIFT-T1, 39.75MHz TRAP
T202	1-409-318-00	VIFT-T2, 47.25MHz TRAP
T203	1-404-181-00	VIFT-T3, 41.25MHz TRAP
T204	1-404-182-00	VIFT-2
T205	1-404-181-00	AFT-1
T206	1-403-367-00	SIFT-1
T207	1-403-871-00	SIFT-2
T208	1-404-179-00	VIFT-1
T209	⚠1-427-442-00	Sound Output, SOT
T301	1-425-995-00	Bandpass, BPT

• ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
T501	1-437-078-00	Horizontal Drive, HDT
T502	⚠ 1-421-351-00	Horizontal Pincushion, H. PCT
T503	⚠ 1-439-234-00	Flyback, FBT
T601	⚠ 1-421-357-00	Line Filter, LFT

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p ; μμF, elect : electrolytic

C012	1-101-006-00	0.047		
C031	1-121-396-00	4.7	50V	elect
C032	1-102-123-00	0.0033		
C033	1-121-396-00	4.7	50V	elect
C034	1-101-880-00	47p		
C035	1-108-389-00	0.1	100V	mylar
C036	1-102-971-00	82p		
C037	1-101-006-00	0.047		
C038	1-130-020-00	0.0015	50V	film
C039	1-130-016-00	680p	50V	polypropylene
C040	1-130-018-00	0.001	50V	film
C041	1-102-973-00	100p		
C042	1-101-884-00	56p		
C044	1-108-393-00	0.22	100V	mylar
C046	1-121-396-00	4.7	50V	elect
C047	1-102-973-00	100p		
C048	1-102-129-00	0.01		
C049	1-123-320-00	100	16V	elect
C050	1-121-403-00	33	16V	elect
C051	1-123-316-00	10	16V	elect
C052, 054	1-108-421-00	0.01	200V	mylar
C056	1-108-421-00	0.01	200V	mylar
C057	1-121-396-00	4.7	50V	elect
C058	1-102-824-00	470p		
C060	1-102-125-00	0.0047		
C061	1-108-377-00	0.01	100V	mylar
C062	1-123-316-00	10	16V	elect
C063	1-108-385-00	0.047	100V	mylar
C101–103	1-121-398-00	10	25V	elect
C104	1-121-403-00	33	16V	elect
C105	1-123-318-00	33	16V	elect
C106	1-108-389-00	0.1	100V	mylar
C108	1-108-385-00	0.047	100V	mylar
C109	1-108-387-00	0.068	100V	mylar
C201	1-101-888-00	68p		
C205, 206	1-102-121-00	0.0022		
C207	1-161-377-00	0.0047		
C208, 209	1-102-121-00	0.0022		
C211	1-108-389-00	0.1	100V	mylar
C212	1-123-353-00	2.2	50V	elect
C213	1-123-351-00	0.47	50V	elect
C214	1-123-354-00	3.3	50V	elect
C215, 216	1-102-503-00	3p		
C217	1-102-963-00	33p		
C218	1-102-513-00	18p		
C219, 220	1-102-121-00	0.0022		
C221	1-123-316-00	10	16V	elect
C222	1-102-121-00	0.0022		
C225	1-101-006-00	0.047		
C226	1-161-295-00	15p		
C228	1-123-352-00	1	50V	elect
C229	1-101-118-00	0.01		
C230	1-102-114-00	470p		
C231	1-108-379-00	0.015	100V	mylar
C232	1-123-351-00	0.47	50V	elect
C233	1-123-323-00	470	16V	elect
C234	1-123-319-00	47	16V	elect
C235	1-123-328-00	4.7	25V	elect
C236	1-102-820-00	330p		
C237	1-102-244-00	220p	500V	
C238	1-123-026-00	2.2	160V	elect
C239	1-123-316-00	10	16V	elect
C240	1-102-496-00	82p		
C241	1-102-518-00	33p		
C242	1-102-494-00	68p		
C243	1-123-250-00	2.2	100V	elect
C244	1-102-121-00	0.0022		
C245	1-161-279-00	10p		

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
C246	1-123-316-00	10 16V elect
C247	1-108-369-00	0.0022 100V mylar
C302	1-161-271-00	100p
C303	1-102-816-00	120p
C304, 305	1-123-316-00	10 16V elect
C308	1-101-004-00	0.01
C309	1-102-820-00	330p
C310	1-123-351-00	0.47 50V elect
C311	1-108-370-00	0.0027 100V mylar
C312	1-123-351-00	0.47 50V elect
C314	1-123-316-00	10 16V elect
C315	1-121-392-00	3.3 25V elect
C316	1-102-963-00	33p
C317	1-102-822-00	390p
C318	1-123-447-00	0.22 50V elect
C319	1-123-328-00	4.7 25V elect
C320	1-123-447-00	0.22 50V elect
C321	1-101-888-00	68p
C323	1-102-947-00	10p
C324	1-102-959-00	22p
C326	1-123-321-00	220 16V elect
C327	1-161-270-00	82p
C328	1-161-271-00	100p
C329	1-123-316-00	10 16V elect
C501	1-123-352-00	1 50V elect
C502	1-123-316-00	10 16V elect
C503	1-108-367-00	0.0015 100V mylar
C504	1-108-376-00	0.0082 100V mylar
C505	1-108-389-00	0.1 100V mylar
C506	1-108-384-00	0.039 100V mylar
C507	1-123-353-00	2.2 50V elect
C508	1-108-373-00	0.0047 100V mylar
C509	1-130-203-00	0.01 50V polypropylene
C510	1-102-112-00	330p
C511	1-123-316-00	10 16V elect
C512	1-123-321-00	220 16V elect
C513	1-123-354-00	3.3 50V elect
C514	1-123-320-00	100 16V elect
C515	1-108-382-00	0.027 100V mylar
C516	1-131-197-00	3.3V 16V tantalum
C517	1-131-361-00	2.2 20V tantalum
C519	1-108-389-00	0.1 100V mylar
C520	1-131-199-00	10 16V tantalum
C521	1-102-244-00	220p 500V
C522	1-101-845-00	0.001 500V
C523	1-121-707-00	3.3 160V elect
C524	1-123-319-00	47 16V elect
C525	1-108-426-00	0.027 200V mylar
C526	1-123-346-00	220 35V elect
C527	1-108-698-00	0.033 200V mylar
C528	1-123-331-00	33 25V elect
C529	1-123-335-00	330 25V elect
C530	1-123-351-00	0.47 50V elect
C531	1-108-377-00	0.01 100V mylar
C532	1-102-030-00	330p 500V
C533	⚠ 1-130-207-00	8800p 1.2kV film
C534	⚠ 1-108-435-00	0.15 200V polyethylene
C535	1-121-999-00	10 160V elect
C536	1-102-223-00	4700p 1.6kV
C537	1-123-354-00	3.3 50V elect
C538	1-123-320-00	100 16V elect
C539	1-121-757-00	33 160V elect
C540	1-101-845-00	0.001 500V
C541	1-123-335-00	330 25V elect
C542	1-123-333-00	100 25V elect
C543	1-130-139-00	0.36 200V polypropylene
C544	1-123-351-00	0.47 50V elect
C545	1-108-383-00	0.033 100V mylar
C546	1-108-381-00	0.022 100V mylar
C547	⚠ 1-102-154-00	180p 2kV
C548	1-102-085-00	0.0047 500V
C549	1-121-246-00	4.7 160V elect
C550	1-123-319-00	47 16V elect
C551	1-102-030-00	330p 500V
C553	1-108-383-00	0.033 100V mylar

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.		Description
C555	1-101-845-00	0.001	500V
C556	1-102-244-00	220p	500V
C559	1-102-212-00	820p	500V
C561	1-123-003-00	1	250V elect
C564	1-108-383-00	0.033	100V mylar
C596	1-123-351-00	0.47	50V elect
C597	1-102-030-00	330p	500V
C598	1-108-373-00	0.0047	100V mylar
C599	1-108-393-00	0.22	100V mylar
C601	⚠ 1-108-745-00	0.22	125VAC mylar
C602	1-102-189-00	0.0047	125V
C603	1-121-396-00	4.7	50V elect
C604	1-125-186-00	560	200V elect
C606	1-121-999-00	10	160V elect
C607	1-101-810-00	100p	500V
C608	1-121-246-00	4.7	160V elect
C701	1-121-738-00	10	50V elect
C702	1-129-737-00	0.047	630V polypropylene
C703	1-102-155-00	330p	2kV
C704	1-102-971-00	82p	
C901	⚠ 1-102-155-00	330p	2kV
C902	1-101-845-00	0.001	500V
C2001	1-123-351-00	0.47	50V elect
C2002–2003	1-101-118-00	0.01	
C2004	1-123-352-00	1	50V elect
C2005	1-123-316-00	10	16V elect
C2006	1-102-110-00	220p	
C2007	1-123-254-00	10	250V elect
C2008	1-123-353-00	2.2	50V elect
C2009	1-108-373-00	0.0047	100V mylar
C2010	1-123-332-00	47	25V elect
C2011	1-102-189-00	0.0047	125VAC
C2012	1-102-050-00	0.01	500V
C2201	1-121-450-00	2.2	50V elect
C2202	1-121-391-00	1	50V elect
CV301	1-141-212-00	Trimmer, 30p; COLOR SYNC	

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.
All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
kΩ : 1000 Ω, MΩ : 1000 kΩ

Ref. No.	Part No.			Description
R051	1-206-696-00	22k	2W	metal oxide (nonflammable)
R073	1-244-873-00	1k	½W	carbon
R074	1-244-929-00	220k	½W	carbon
R085	1-206-700-00	33k	2W	metal oxide (nonflammable)
R086	1-244-909-00	33k	½W	carbon
R099	1-202-667-00	8.2M	½W	compostion
R212	1-211-602-00	33	½W	carbon (nonflammable)
R232	1-211-933-00	47	1/8 W	carbon (nonflammable)
R237	1-211-417-00	22	1/8 W	carbon (nonflammable)
R243	1-213-124-00	27	1W	metal oxide (nonflammable)
R244	1-212-368-00	4.7	1W	metal oxide (nonflammable)
R246	1-211-602-00	33	½W	carbon (nonflammable)
R518	1-246-991-00	150	1/8 W	carbon (nonflammable)
R519	1-211-933-00	47	1/8 W	carbon (nonflammable)
R520	1-206-690-00	12k	2W	metal oxide (nonflammable)
R521	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R522	1-244-873-00	1k	½W	carbon
R525	1-212-363-00	1.8	1W	metal oxide (nonflammable)
R526	1-244-909-00	33k	½W	carbon
R528	1-206-668-00	1.5k	2W	metal oxide (nonflammable)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.			Description
R530	1-213-135-00	220	1W	metal oxide (nonflammable)
R531	1-211-536-00	390	¼W	carbon (nonflammable)
R532	1-214-141-00	2.4k	¼W	metal oxide
R533	1-212-366-00	3.3	1W	metal oxide (nonflammable)
R534	1-213-146-00	1.8k	1W	metal oxide (nonflammable)
R537	1-212-701-00	91k	½W	metal oxide
R538	1-244-897-00	10k	½W	carbon
R548	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R555	1-246-979-00	1.2	1/8W	carbon (nonflammable)
R558	1-211-567-00	10k	¼W	carbon (nonflammable)
R560	1-211-473-00	8.2k	1/8W	carbon (nonflammable)
R561	1-214-152-00	6.8k	¼W	metal oxide
R562	1-211-506-00	22	¼W	carbon (nonflammable)
R566	1-213-129-00	68	1W	metal oxide (nonflammable)
R567	1-246-979-00	1.2	1/8W	carbon (nonflammable)
R568	1-211-417-00	22	1/8W	carbon (nonflammable)
R570	1-206-674-00	2.7k	2W	metal oxide (nonflammable)
R571	1-213-132-00	120	1W	metal oxide (nonflammable)
R577	1-213-127-00	47	1W	metal oxide (nonflammable)
R595	1-211-933-00	47	1/8W	carbon (nonflammable)
⧓ R597	⚠		¼W	carbon
R598	1-206-692-00	15k	2W	metal oxide (nonflammable)
R602	⚠ 1-213-157-00	15k	1W	metal oxide (nonflammable)
R603	⚠ 1-244-889-00	4.7k	½W	carbon
R604	1-247-037-00	390	1/8W	carbon (nonflammable)
R605	⚠ 1-244-911-00	39k	½W	carbon (nonflammable)
R607	1-211-929-00	82	1/8W	carbon (nonflammable)
R608	1-217-257-00	4.7	3W	wirewound (nonflammable)
R609	1-213-159-00	22k	1W	metal oxide (nonflammable)
R703	1-206-692-00	15k	2W	metal oxide (nonflammable)
R706	1-206-692-00	15k	2W	metal oxide (nonflammable)
R709	1-206-692-00	15k	2W	metal oxide (nonflammable)
R710	1-244-885-00	3.3k	½W	composition
R712	1-207-453-00	0.15	½W	wire
R713	1-244-885-00	3.3k	½W	composition
R714	1-244-909-00	33k	½W	composition
R715	1-244-913-00	47k	½W	composition
R716	1-244-885-00	3.3k	½W	composition
R717	1-244-945-00	1M	½W	composition
R718	1-244-849-00	100	½W	composition
R719	1-244-945-00	1M	½W	composition
R720	1-244-931-00	270k	½W	composition
R721	1-202-719-00	1.2M	½W	composition
R722	1-244-723-00	120k	½W	composition
R723	1-244-929-00	220k	½W	composition
R901	1-205-593-11	200	20W	wirewound (nonflammable)
R902	⚠ 1-205-590-00	6.8	30W	wirewound (nonflammable)
R2014	1-211-439-00	330	1/8W	carbon (nonflammable)
R2015	1-213-163-00	47k	1W	metal oxide (nonflammable)

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
RV201	1-226-135-00	4.7k, adjustable; RF. AGC. V
RV202	1-226-135-00	4.7k, adjustable; RF. AGC. U
RV301A	1-226-078-00	10k, variable; SHARPNESS
RV302	1-226-078-00	10k, variable; PICTURE
RV303	1-226-408-00	500, variable; BRIGHT
RV304	1-226-099-00	4.7k, adjustable; SUB. BRT.
RV305	1-226-075-00	10k, variable; COLOR
RV306	1-226-075-00	10k, variable; HUE
RV307	1-224-552-00	470k, adjustable; ACC
RV308	1-226-099-00	4.7k, adjustable; SUB. CONTRAST
RV501	1-226-077-00	1k, adjustable; H. FREQ.
RV502B	1-226-077-00	5k, variable; V. HOLD
RV503	1-226-217-00	22k, adjustable; V. SIZE
RV504	1-224-645-XX	10k, adjustable; PIN AMP
RV701	1-226-209-00	3.3k, adjustable; B. BKG
RV702	1-224-649-XX	330, adjustable; B. DRIVE
RV703	1-226-209-00	3.3k, adjustable; G. BKG
RV704	1-224-640-XX	330, adjustable; G. DRIVE
RV705	1-226-209-00	3.3k, adjustable; R. BKG
RV706	1-226-063-00	2.2M, adjustable; SCRN
RV707	1-226-114-00	2.2M, adjustable; FOCUS
RV901	⚠ 1-226-271-00	HVR Ass'y

MISCELLANEOUS

F601	⚠ 1-532-271-XX	Fuse, 4A
F603	⚠ 1-532-536-00	Fuse, 1A
J901 A, B	1-507-539-11	Jack; EARPHONE
NL501, 601	1-519-108-XX	Lamp, neon
NL2251–2264	1-519-154-31	Lamp, neon; channel indicator
S15, 16	1-552-774-00	Switch, pushbutton; VOLUME UP/DOWN
S301	1-552-340-00	Switch, rotary-slide; AUTO
S901	⚠ 1-552-658-00	Switch, pushbutton; POWER
S2201	1-552-656-00	Switch, slide; CHANNEL SET
S2202	1-552-656-00	Switch, slide; AFT
S2203	1-552-774-00	Switch, pushbutton; TUNING UP
S2204	1-552-774-00	Switch, pushbutton; TUNING DOWN
S2205	1-552-774-00	Switch, pushbutton; CHANNEL CLEAR
S2251–2264	1-552-774-00	Switch, pushbutton; channel selec
SG501	1-519-063-XX	Spark Gap
SG701–706	1-519-063-XX	Spark Gap
SP901	1-502-466-XX	Speaker, 8Ω
V901	⚠ 8-739-601-05	Picture Tube, 400EDB22
VDR601	⚠ 1-800-641-00	Varistor
X301	1-527-396-00	Crystal, 3.58MHz
	1-452-032-00	Magnet, disk; 10mm dia
	1-452-094-00	Magnet, ratatable disk; 15mm dia
	⚠ 1-452-112-31	Neck Ass'y
	1-452-133-00	Magnet, BMC
	1-526-086-XX	Socket, picture tube
	1-533-146-00	Holder, fuse
	1-536-378-XX	Terminal strip, 2L1
	⚠ 1-536-592-00	Terminal, antenna
	⚠ 1-551-603-00	Cord, power

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

PACKING MATERIALS AND ACCESSORIES

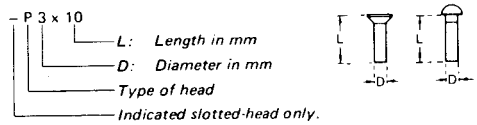
Part No.	*Description*
Y-2063-103-0	Antenna, loop; AN-15
Y-2201-611-0	Antenna, telescopic dipole; AN-16
1-504-034-32	Earphone, ME-20B
1-561-335-00	Connector, antenna; EAC-31
3-701-352-00	Bag, polyethylene
3-794-233-21	Instruction
4-334-319-00	Label (B), indicator
4-335-736-00	Cushion, left lower
4-335-737-00	Cushion, right lower
4-335-738-00	Cushion, left upper
4-335-739-00	Cushion, right upper
4-335-740-00	Carton
4-335-741-00	Sheet, protection
4-491-213-21	Instruction
4-491-325-21	Card, warranty
4-491-350-01	Schematic Diagram
4-495-822-21	Manual, instruction

1/4 WATT CARBON RESISTORS

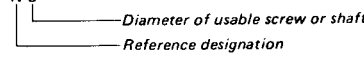
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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Sony Corporation

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Printed in Japan

TRINITRON®
COLOR TV

KV-1514

US Model

Chassis No. SCC-207C-A

No. 1
December, 1979

CORRECTION

Correct service manual as shown below.

▬ : corrected portion

Page 16: 4-3. A BOARD ADJUSTMENTS

R597 ADJUSTMENT

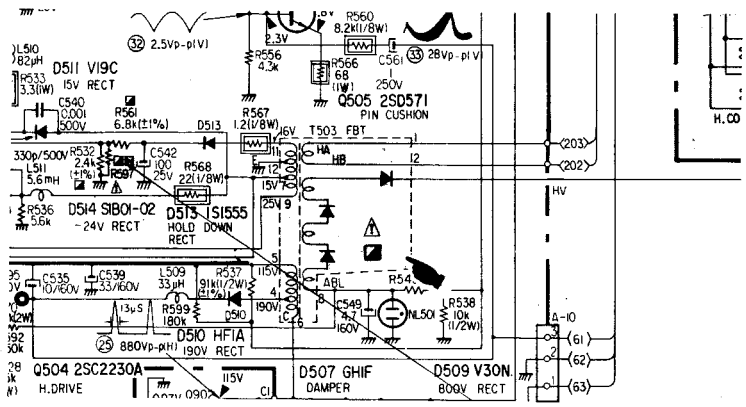
Note: When replacing the following components, make this adjustment. IC501, D502, C513, R510, R532, R561, R597, R598, T503.

Page 30: 5-4. SCHEMATIC DIAGRAM

Note:

Part replaced (▬)	Adjustment
C513, D502, IC501 R510, R532, R561 R597, R598, T503	R597 Adjustment

Page 33: 5-4. SCHEMATIC DIAGRAM



SONY®
SERVICE MANUAL

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Sony Corporation

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SONY TRINITRON® COLOR TV

KV-1514

US Model

Chassis No SCC-207C-A

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

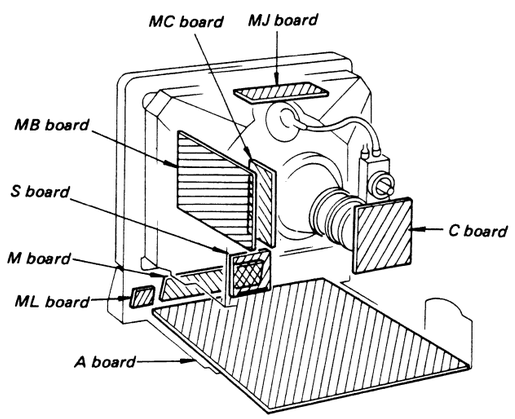
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CAUTION

- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

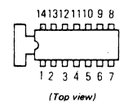
CIRCUIT BOARDS LOCATION



MOUNTING DIAG

Note: ● All mounting diagram
● ○— : parts extracted
● ●— : parts extracted
● ■ : part mounted

CX095C



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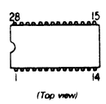

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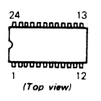

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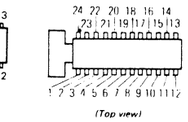

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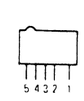

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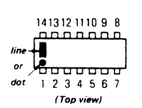

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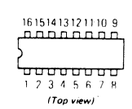

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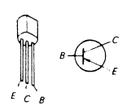

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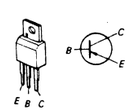

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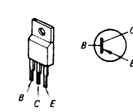

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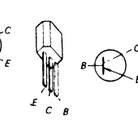

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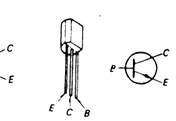

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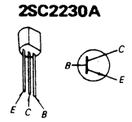

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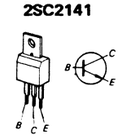

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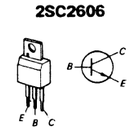

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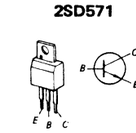

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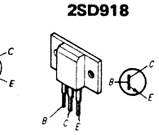

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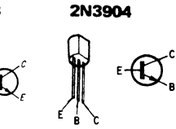

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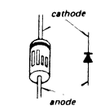

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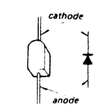

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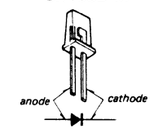

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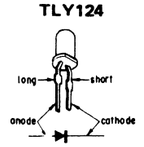

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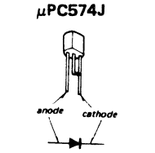
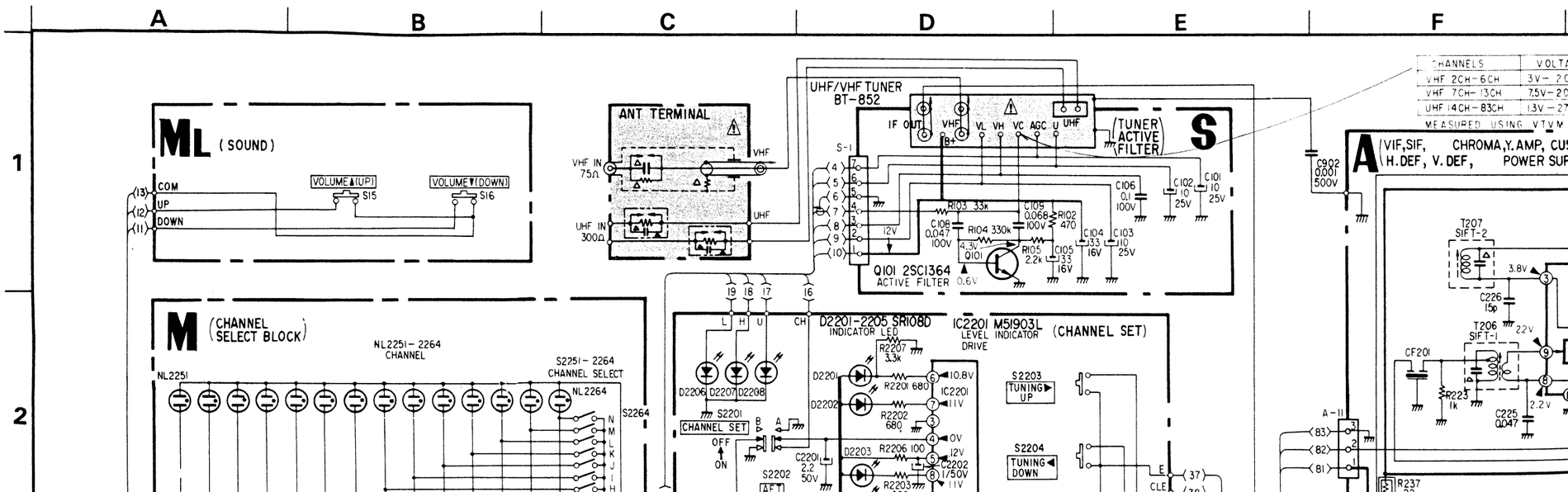


SCHEMATIC DIAGRAM

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

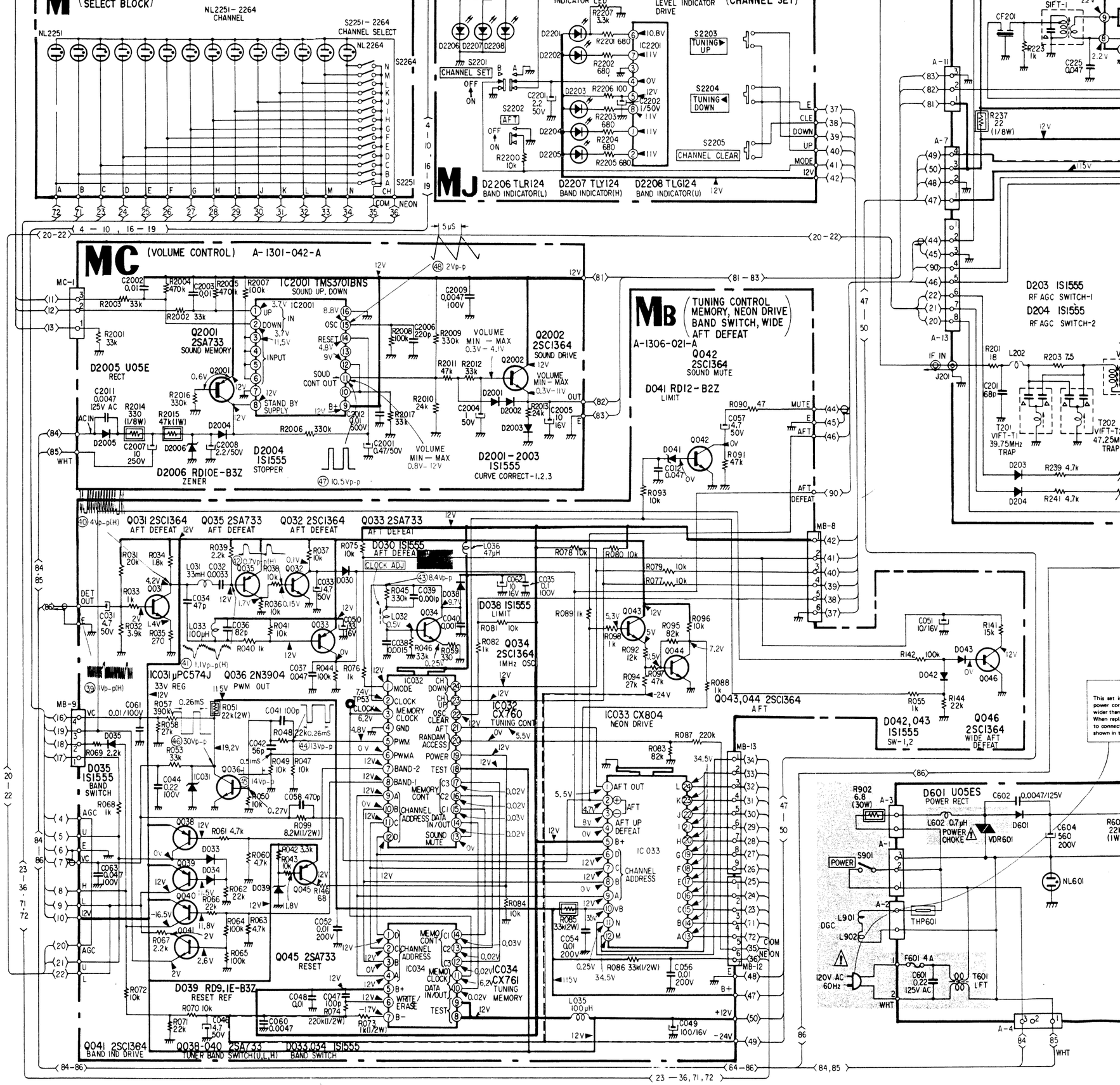
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.



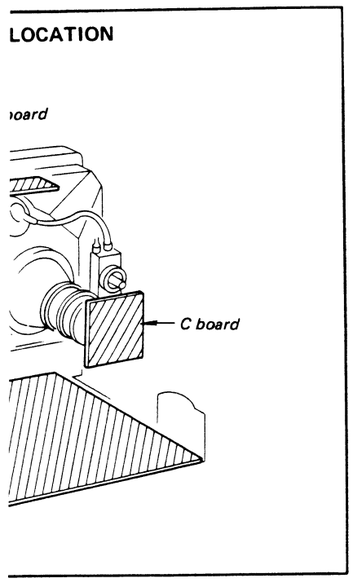
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the spedified value is achieved. (Refer to R597 adjustment on page 16).
  When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
C513, D502, IC501 R510, R532, R561 R597, 598	R597 adjustment

- Voltages are dc with respect to ground unless noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on MB board are taken with set selected to channel A and to VHF low band position.
- Voltage variations may be noted due to normal production tolerances.



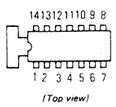
LOCATION



MOUNTING DIAGRAM

Note:
- All mounting diagrams are viewed from conductor side.
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

CX095C



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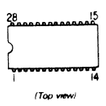

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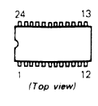

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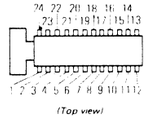

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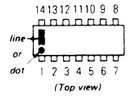

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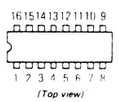

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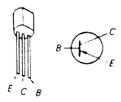

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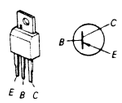

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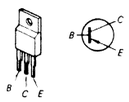

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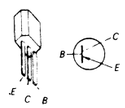

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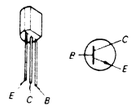

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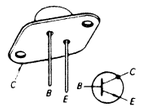

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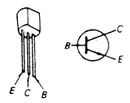

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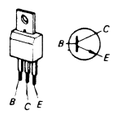

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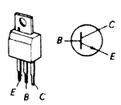

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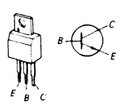

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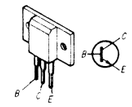

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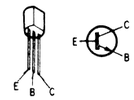

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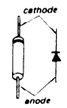
RD9.1E-B3Z
RD10E-B2Z
RD12E-B1Z
RD13E-B2Z
RD13E-B3Z



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SIB01-02

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U05ES
U05G
V19C
V19E
V30N

HF1A
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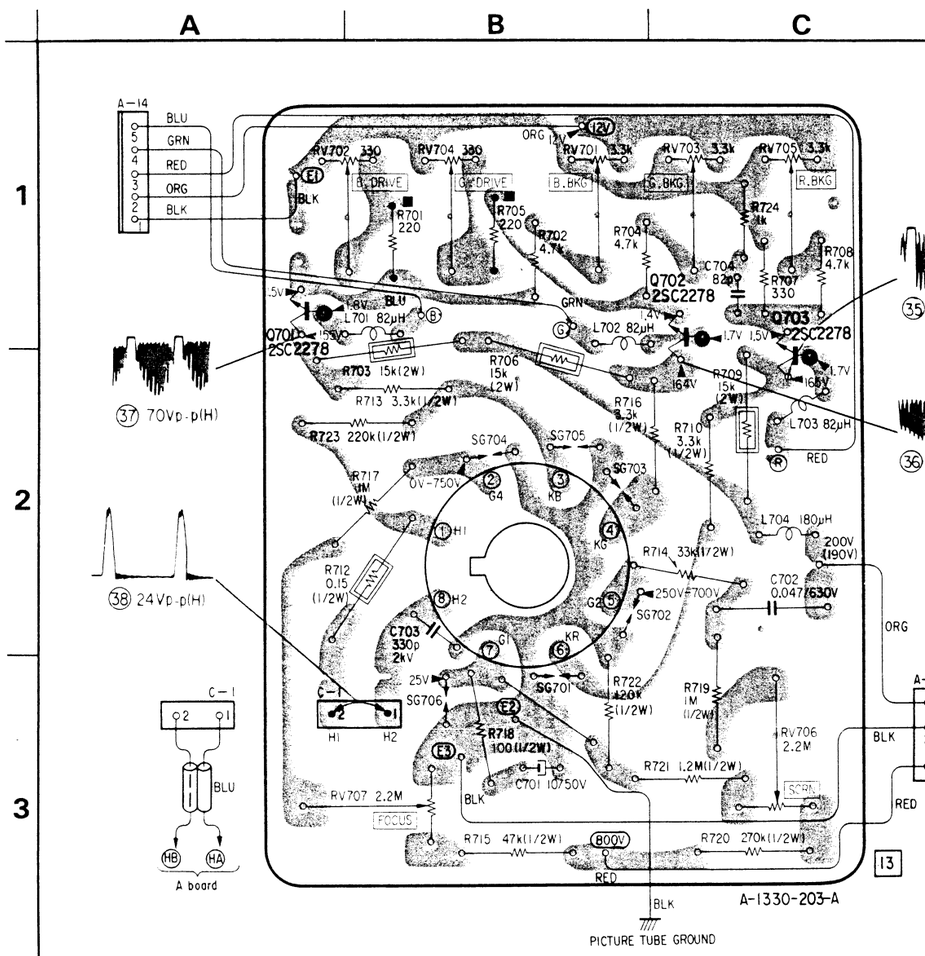
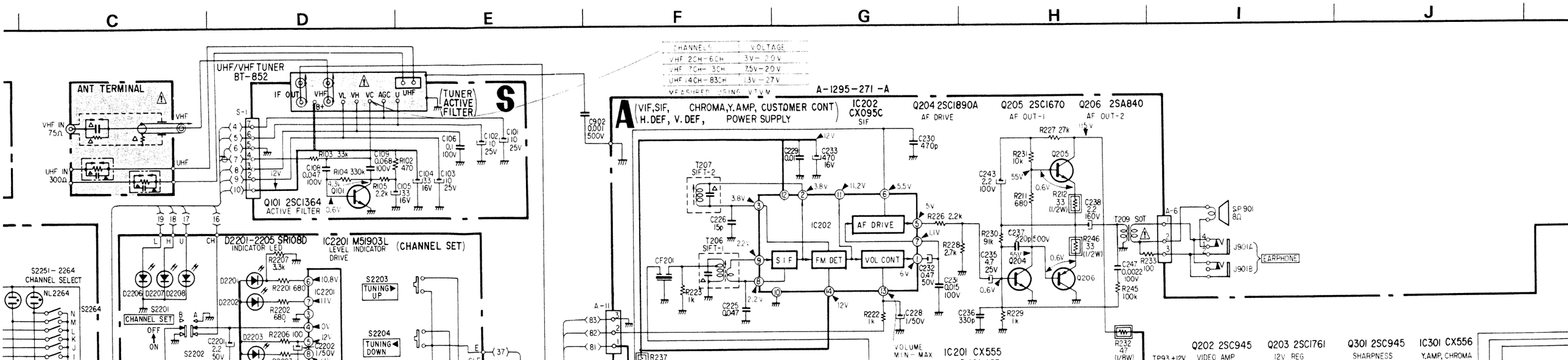
SR108D
SR108D-M

TLG124
TLR124
TLY124

μPC574J

C 〔R.G.B. OUT〕





S2251 – 2264 CHANNEL SELECT

NL2264

S2264

S2251

D2201 – 2205 SR108D INDICATOR LED

IC2201 M51903L LEVEL INDICATOR DRIVE

(CHANNEL SET)

D2206 D2207 D2208

S2201 CHANNEL SET

S2202 AFT

S2203 TUNING UP

S2204 TUNING DOWN

S2205 CHANNEL CLEAR

MJ

D2206 TLR124 BAND INDICATOR(L)

D2207 TLY124 BAND INDICATOR(H)

D2208 TLG124 BAND INDICATOR(U)

MB (TUNING CONTROL MEMORY, NEON DRIVE BAND SWITCH, WIDE AFT DEFEAT)

A-1306-021-A

Q042 2SC1364 SOUND MUTE

D041 RD12-B2Z LIMIT

D2001 – 2003 IS1555 CURVE CORRECT-1,2,3

TMS3701BNS UP, DOWN

Q2002 2SC1364 SOUND DRIVE

VOLUME MIN – MAX 0.3V – 4.1V

VOLUME MIN – MAX 0.8V – 12V

Q033 2SA733 AFT DEFEAT

D030 IS1555 AFT DEFEAT

CLOCK ADJ

D038 IS1555 LIMIT

Q034 2SC1364 1MHz OSC

IC032 CX760 TUNING CONT

IC033 CX804 NEON DRIVE

IC034 CX761 TUNING MEMORY

Q034 IS1555 SWITCH

Q043,044 2SC1364 AFT

D042,043 IS1555 SW-1,2

Q046 2SC1364 WIDE AFT DEFEAT

CAUTION

This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other).
When replacing the AC power cord, be sure to connect it with specified part number as shown in this diagram.

D203 IS1555 RF AGC SWITCH-1

D204 IS1555 RF AGC SWITCH-2

IC201 VIF, AGC, AFT

VOLUME MIN – MAX 0.2V – 11V

D205 IS1555 TU AGC

Q202 2SC945 VIDEO AMP

Q203 2SC1761 12V REG

Q301 2SC945 SHARPNESS

IC301 CX556 Y.AMP, CHROMA

D202 RD13E-B2Z 12V REG ZENER

D301 DL301 DELAY LINE

Q501 2SC2230A V. DRIVE

Q502 2SC2141 V.OUT-1

Q503 2SA951 V.OUT-2

D506 HF1Z V.MULTI PLIER-2

D505 SIB01-02 VERT MULTIPLIER-1

D516 IS1555 V.BLK SLICE

D503 IS1555 VERT IDL

IC501 CX557 S.S.P

D521 EQA01-24RR -24V BIAS

D508 IS1555 H.PULSE SLICE

D502 RD5.6E-Z7S HOLD DOWN BIAS

D601 U05ES POWER RECT

IC601 POWER MODULE

Q601 2SA893A REG DRIVE

Q901 2SD918 REG OUT

F601 4A

F603 1A

THP601

VDR601

NL601

S901 POWER

L901 DGC

L902

T601 LFT

R901 200(20W)

BRIGHT, PICTURE MIN – MAX 300mA – 370mA

120V AC 60Hz

WHT

COM NEON

EARPHONE

J901A

J901B

J201 IF IN

TP91 115V

TP93 +12V

TP15 RF AGC

TP16 AFT

TP12 DET OUT

TP81 V.DRIVE

TP82 V.OUT

TP94 -24V

TP96 25V

SUB CONT

CONTRAST

SHARPNESS

PEDESTAL

BPA

BURST

ACC DET

KILLER

HUE CONT

ACC

SYNC SEPARATOR

VERT OSCILLAT

VERT SAW TOOTH GENERATOR

VERT PRE DRIVE

NOISE BLANKIG

H. AFC

HV HOLD DOWN

INTEGATOR

H. OSC

HORI OUT PUT

ERROR AMP

REG REF

DIVIDE

V.HOLD

V.SIZE

H.FREQ

MB-8

MB-12

MB-13

A-1

A-2

A-3

A-4

A-5

A-7

A-10

A-11

A-13

A-23

CH

IC

Q

D

R

C

L

T

RV

F

TP

J

S

MB

A

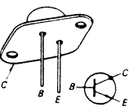
MJ

RAM

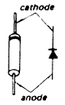
are viewed from conductor side.
rom the component side.
rom the conductor side.
the conductor side.

M51903L

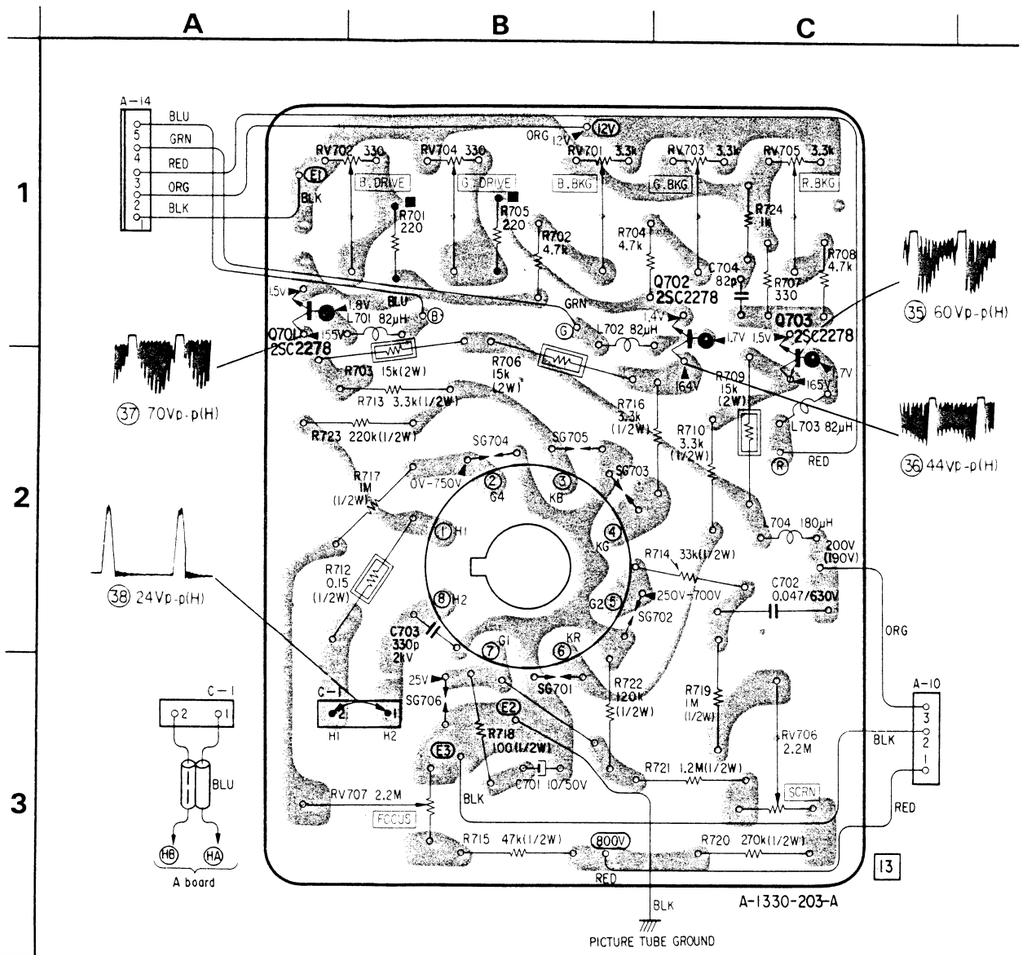
2SC1875



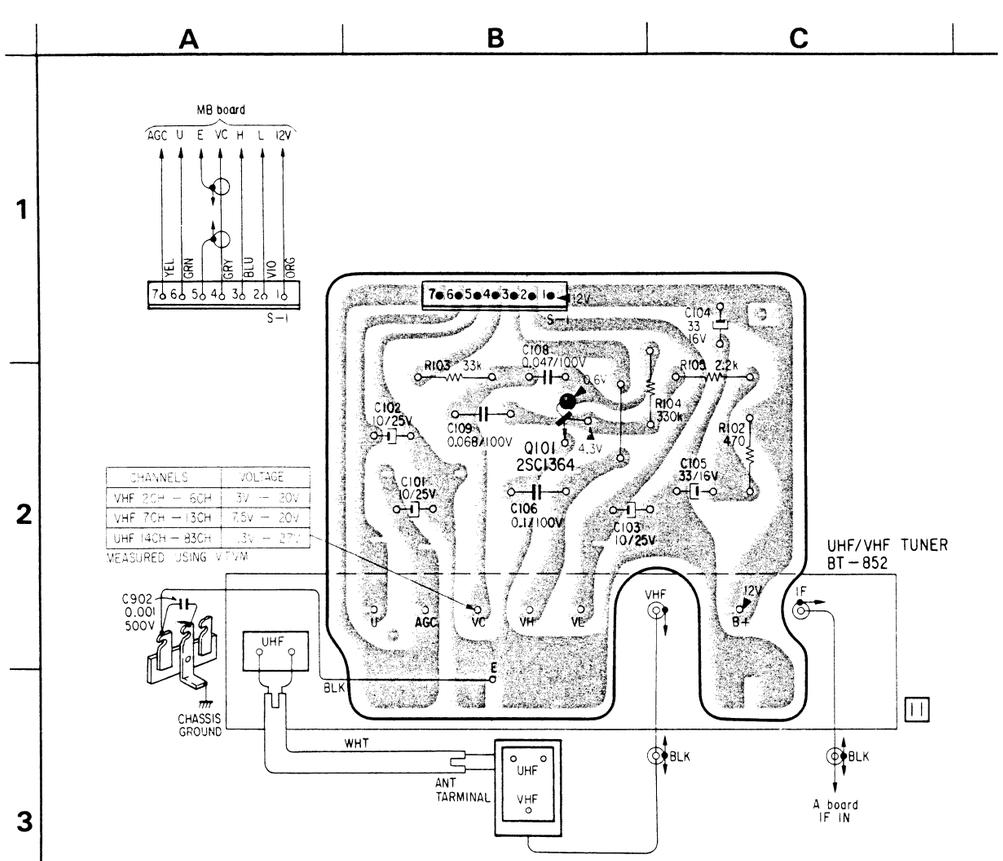
1S1555
10E2
RD5.6E-BZ7S
RD9.1E-B3Z
RD10E-B2Z
RD12E-B1Z
RD13E-B2Z
RD13E-B3Z

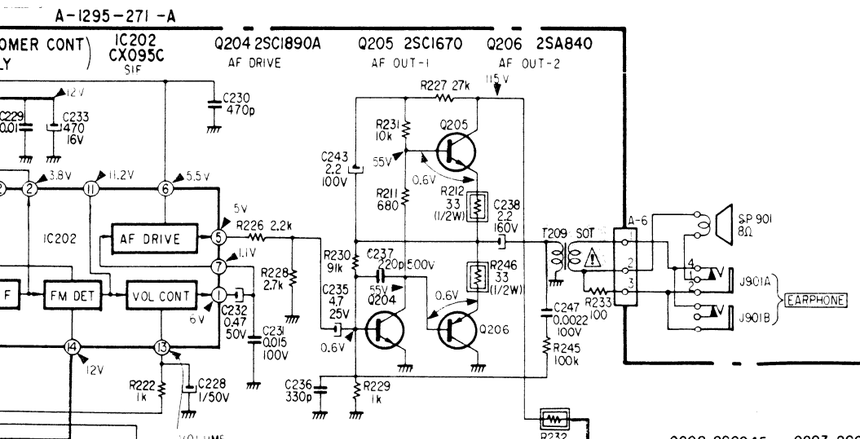


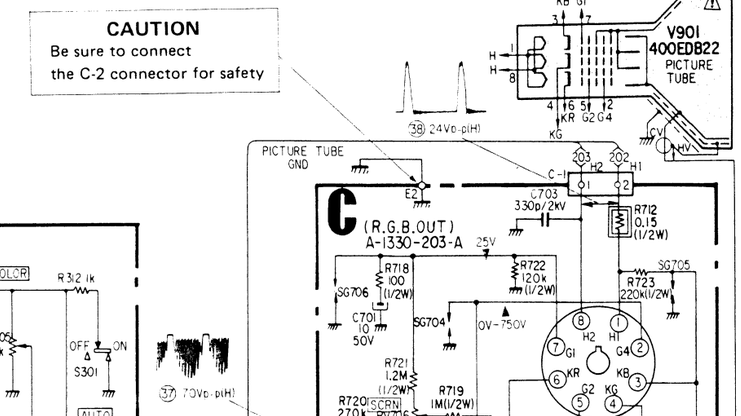
C [R.G.B. OUT]



S [TUNER ACTIVE FILTER]







CAUTION
Be sure to connect
the C-2 connector for safety

IC201 CX555
VIF, AGC, AFT

Q202 2SC945
VIDEO AMP

Q203 2SC1761
12V REG

Q301 2SC945
SHARPNESS

IC301 CX556
Y.AMP, CHROMA

D202 RD13E-B2Z
12V REG ZENER

IC501 CX557
S.S.P

D521 EQA01-24RR
-24V BIAS

Q501 2SC2230A
V.DRIVE

Q502 2SC2141
V.OUT-1

Q503 2SA951
V.OUT-2

D506 HF1Z
V.MULTI PLIER-2

D505 SIB01-02
VERT MULTIPLIER-1

D504 V19E
25V RECT

D519 SIB01-02
H.CENT-2

D518 SIB01-02
H.CENT-1

D511 V19C
15V RECT

D514 SIB01-02
-24V RECT

D513 1S1555
HOLD DOWN RECT

D510 HF1A
190V RECT

Q504 2SC2230A
H.DRIVE

D507 GHIF
DAMPER

D509 V30N
800V RECT

Q505 2SD571
PIN CUSHION

Q703 2SC2278 Q702 2SC2278 Q701 2SC2278
R.OUT G.OUT B.OUT

Q601 2SA893A
REG DRIVE

Q901 2SD918
REG OUT

Q902 2SC1875
H.DRIVE

D516 1S1555
V.BLK SLICE

D503 1S1555
VERT IDL

D508 1S1555
H.PULSE SLICE

D502 RD5.6E-Z7S
HOLD DOWN BIAS

D501 RD12E-B1Z
IC PROTECT

D205 1S1555
RF AGC

D301 SIB01-02
ABL

D0301
BRIGHT

TP42 BAND PASS

TP93 +12V

TP16 AFT

TP12 DET OUT

TP91 115V

TP84 H.OUT

TP83 H.OSC

TP94 -24V

TP15 RF AGC

TP81 V.DRIVE

TP82 V.OUT

TP96 190V

TP95 135V

SP 901 8Ω

EARPHONE J901A J901B

PICTURE TUBE GND

VOLUME MIN - MAX 0.2V - 11V

BRIGHT, PICTURE MIN — MAX 300mA — 370mA

CAUTION
...pped with a polarized AC
...g (one blade of the plug is
...ther).
...the AC power cord, be sure
...ith specified part number as
...gram.

: See page 16

MOUNTING DIAGRAM

A VIF, SIF, AGC, CHROMA, Y.AMP
H.DEF, V.DEF, POWER SUPPLY
CUSTOMER CONTROL

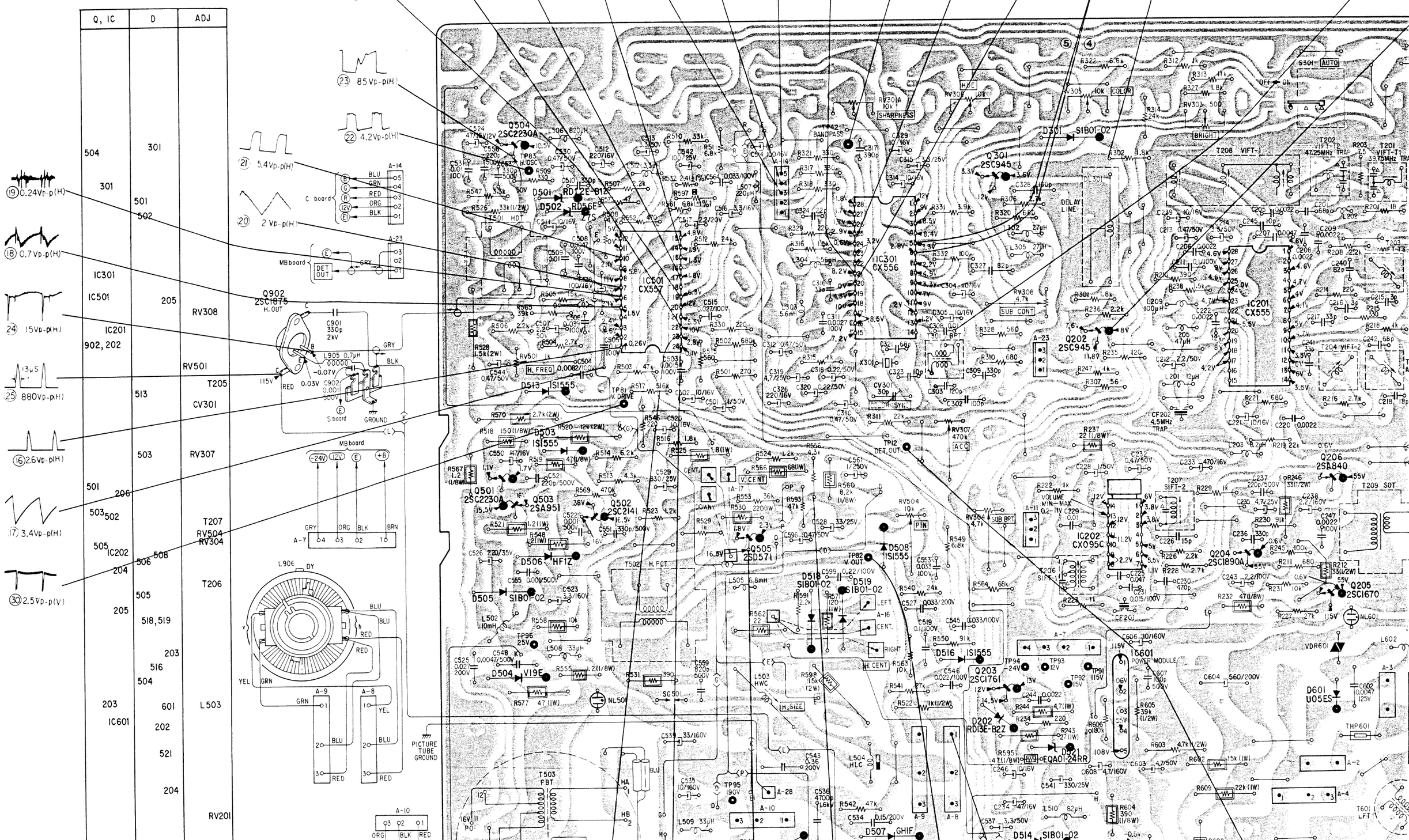
Note:

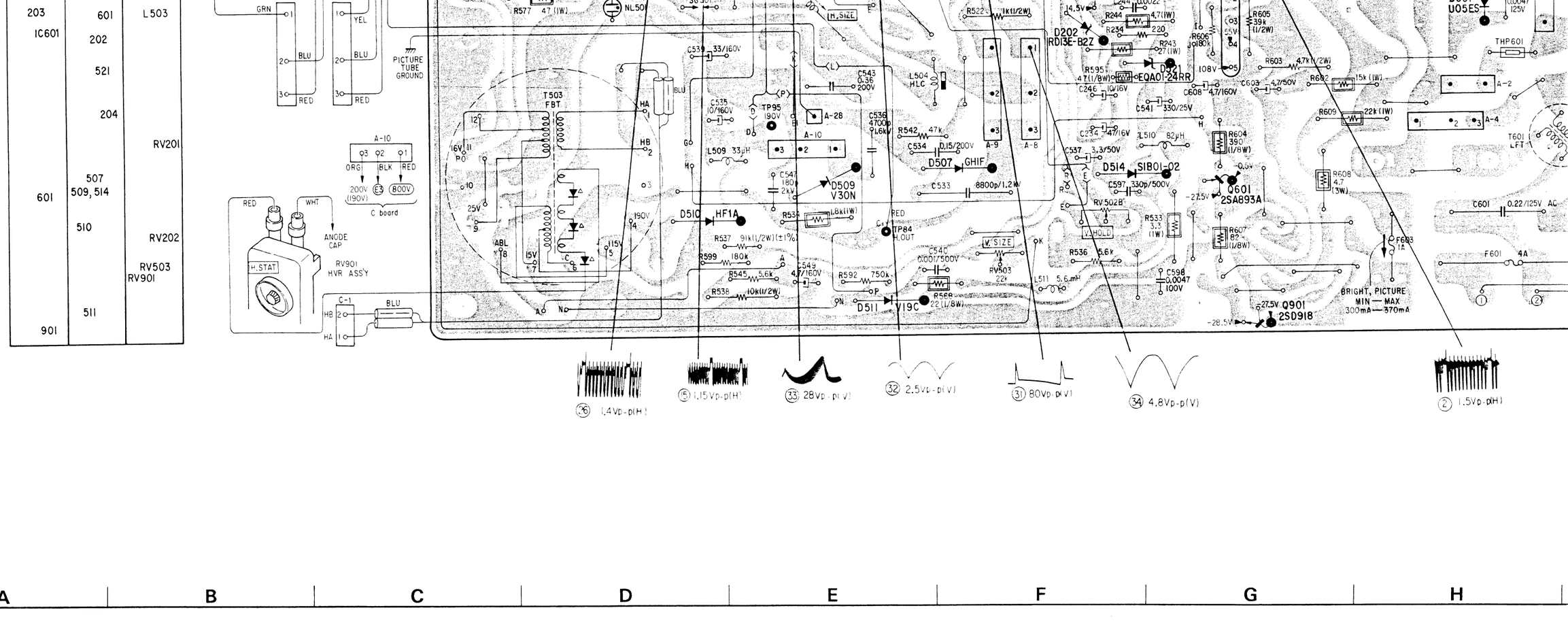
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

Q, IC	D	ADJ
504	301	
301		
	501	
	502	
IC301		
IC501	205	RV308
IC201		
902, 202		
		RV501
	T205	
	513	
		CV301
	503	RV307
501		
206		
503 502		T207
		RV504
505 IC202		RV304
506	508	
204		
	T206	
505		
205		
518, 519		
203		
516		
504		
203	601	L503
IC601		
202		
521		
204		
		RV201

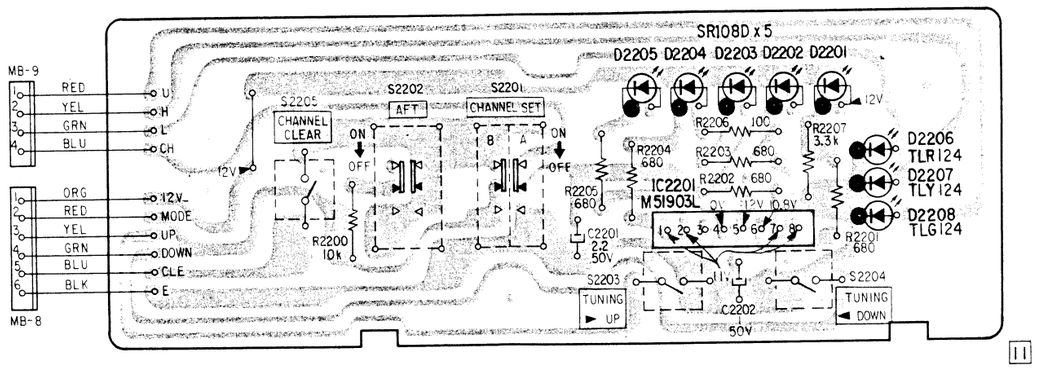
(14) 11.5Vp-p(H) (27) 3.6Vp-p(V) (29) 3.3Vp-p(V) (28) 1.3Vp-p(V) (10) 3Vp-p(H) (11) 2.6Vp-p(H) (12) 3.3Vp-p(H) (8) 2.2Vp-p(H) (9) 1.05Vp-p(H) (13) 3.7Vp-p(H) (7) 6.6Vp-p(H) 0.56Vp-p(H) (4) (5) (3) 0.72Vp-p(H) (6) 0.23Vp-p(H)

(23) 85Vp-p(H) (22) 4.2Vp-p(H) (21) 5.4Vp-p(H) (20) 2Vp-p(H) (19) 0.24Vp-p(H) (18) 0.7Vp-p(H) (24) 15Vp-p(H) (25) 880Vp-p(H) (16) 2.6Vp-p(H) (17) 3.4Vp-p(H) (30) 2.5Vp-p(V)

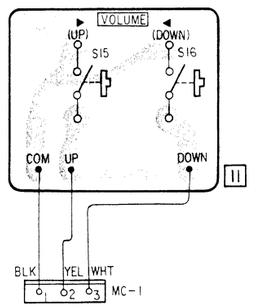


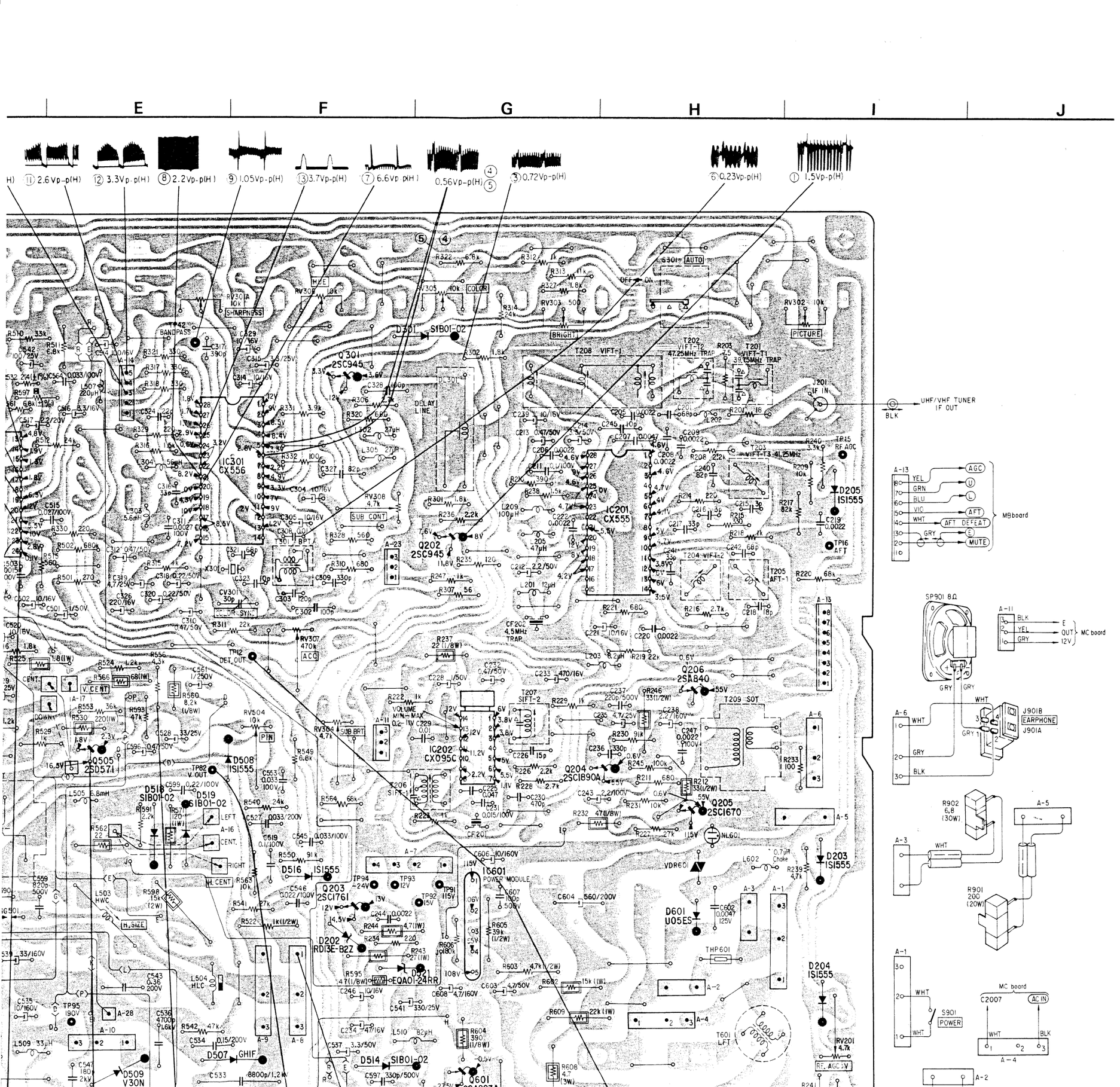


MJ [CHANNEL SET]



ML [SOUND]



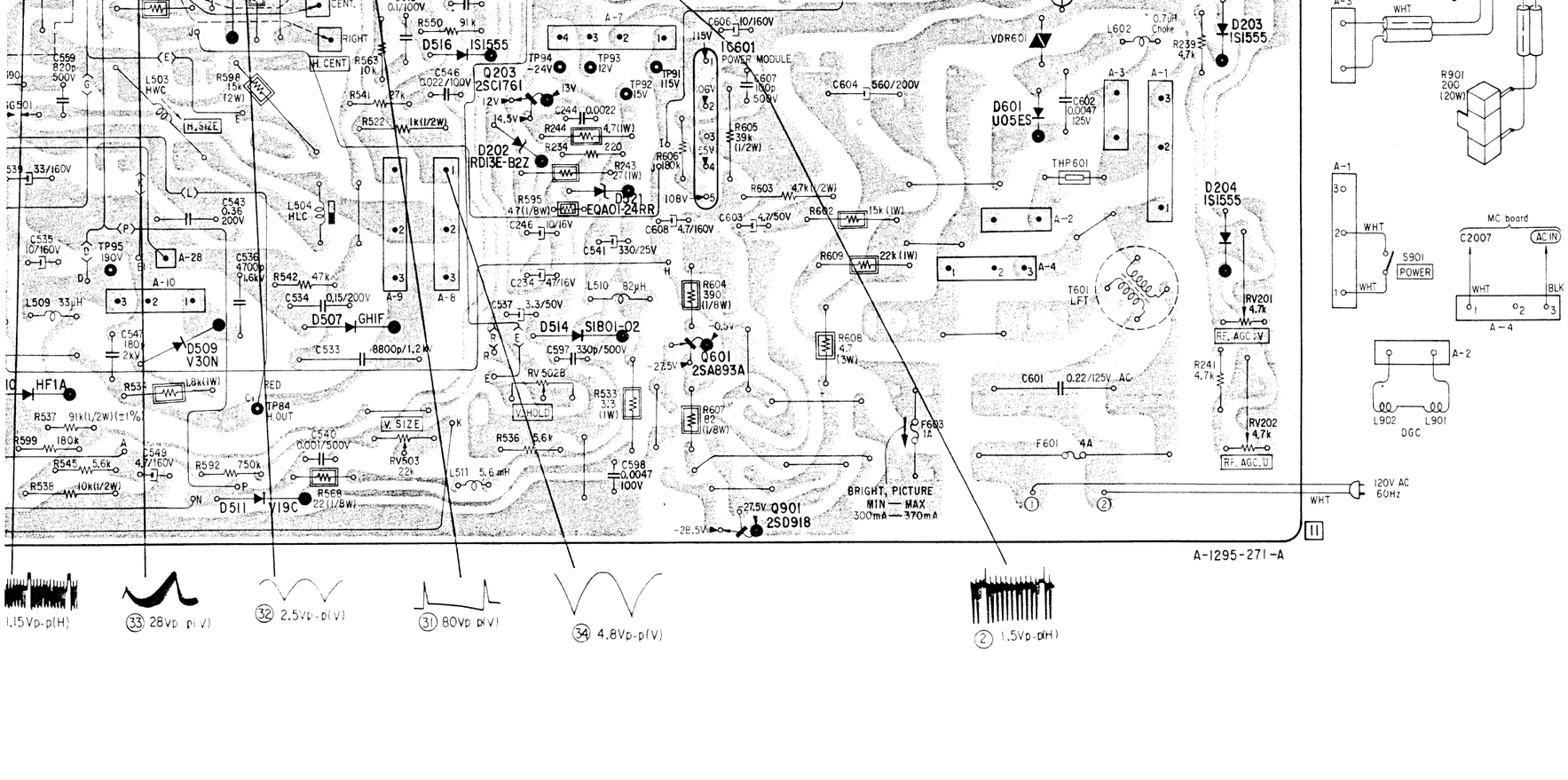


A B

MC (VOLUME CONTRO

A B

M (CHANNEL SELECT BLOCK



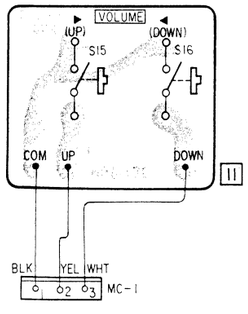
MB

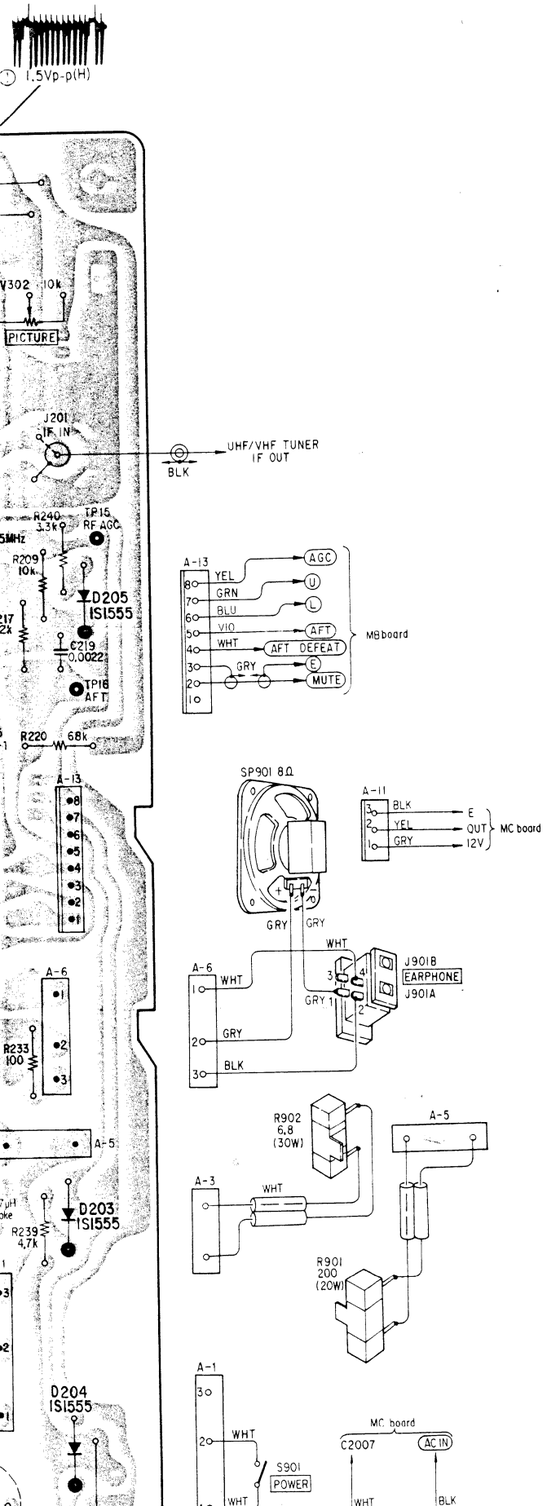
TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH
WIDE AFT DEFEAT

I.C. Q	034	IC032
D	038	

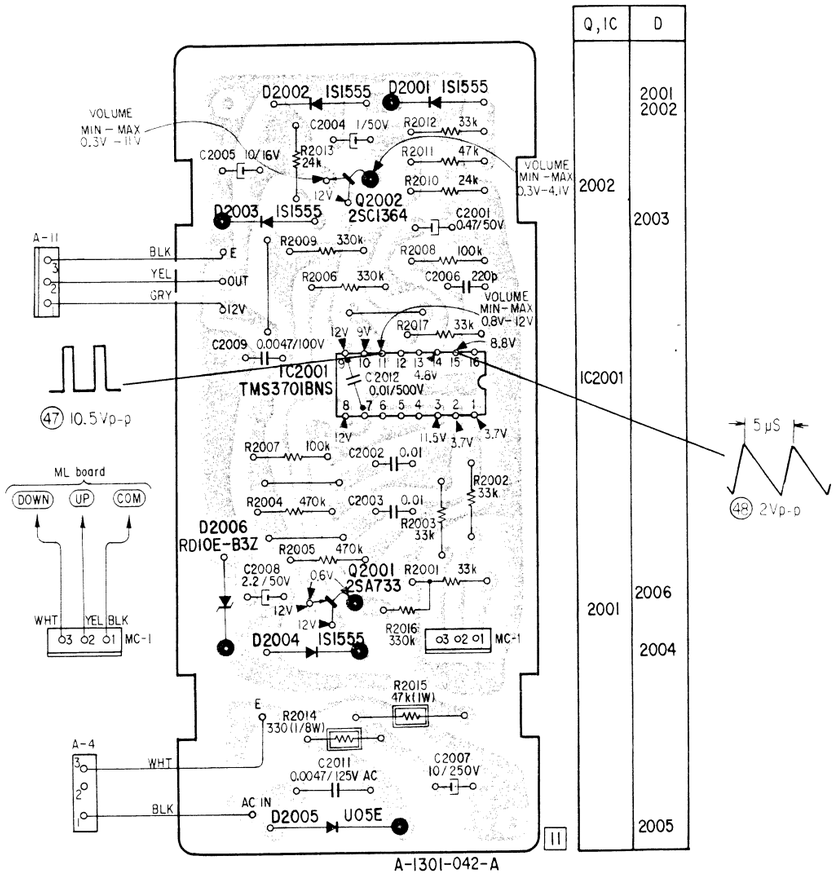
ML

[SOUND]



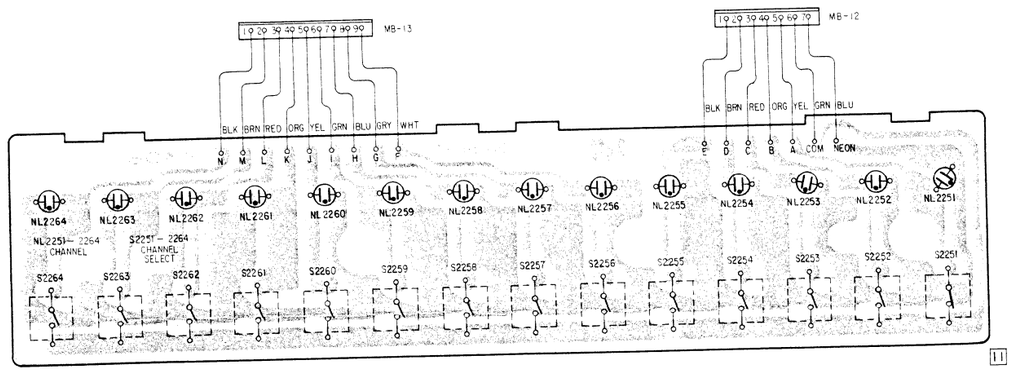


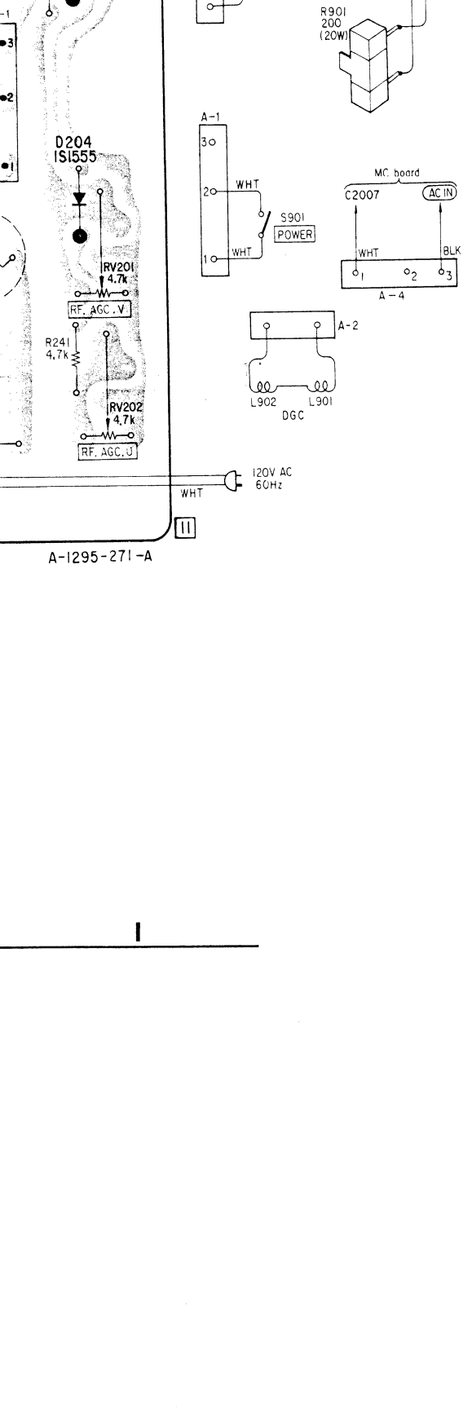
MC (VOLUME CONTROL)

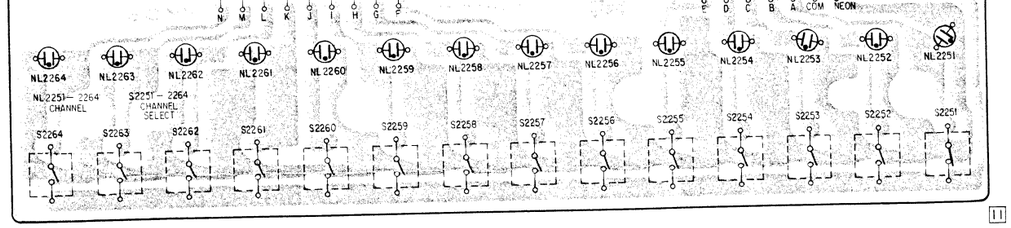


A-1301-042-A

M (CHANNEL SELECT BLOCK)







MB TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH
WIDE AFT DEFEAT

IC・Q	034	IC032	IC031 036 IC033	IC034	046	044	043 042	038	039	033 035	041 040 032	045 031
D	038				042 043			041 030		033 034		035 039

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